Author Index to CGC Volumes 65-71

Bartelt D Ir. 71:76

Abdelhav E. 71:173 Abe S. 66:135 Abe Y. 66:103 Abeliovich D, 70:117 Abramova E. 68:52 Advani SH, 66:43 Aimar F. 67:50 Al Aasar EM. 68:147 Al-Bahar S. 68:147 Al-Katib A, 70:62 Alers I. 66:131 Alfinito F. 69:136 Alimena G. 66:39 Allen EF, 71:102 Alm P. 65:79 Altman Al. 67:81 Alvarez A, 70:153 Alvarez MA, 65:76 Alv MS, 65:104 Amadori D, 65:111 Ambros PF, 71:94 Amiel A. 65:32: 70:21 Anderson IR, 69:79 Andria M, 68:32 Angelucci D, 70:151 Antinolo G. 65:177: 71:183 Antonini P. 67:117 Antonucci A. 65:88 Ardisia C, 67:113 Argyriou-Tirita A, 71:50 Arioka H, 71:22 Arps S, 66:93 Asenjo S, 70:153 Asensio A, 65:170; 70:152 Atkin NB, 67:123 Auamatsu T, 71:155 Avalos MR, 66:70 Ayraud N, 67:149; 71:100

r

B Babacan E, 69:38 Badia L, 65:76 Baens M, 69:60 Baer MR, 67:141 Bajer J, 65:115 Baker MC, 67:123 Balsara B, 66:43 Barbata G, 66:63 Barbieri-Neto J, 69:146 Bardi A, 71:119 Bartnitzke S, 65:27: 65:64: 67:90; 69:68 Bartsch O, 71:67 Basso G, 71:144 Bauduer F. 69:156 Bayle I. 71:100 Beck WT. 70:48 Beitzel BF, 71:125 Bello MI, 66:1: 66:28: 66:117: 71:185 Ben-Neriah S. 70:117 Benkhalifa M. 67:101 Benn PA, 67:81 Berger CS, 70:103: 70:132 Berger R, 65:47; 66:128; 66:137: 67:117: 69:13: 70:125: 70:146 Bernheim A. 66:11 Bernus M. 69:76 Besses C, 65:170; 69:165; 70:152 Bettio D, 68:149 Beverstock GC, 65:7 Bharadwai TPR, 65:12 Bhatia PS, 69:79 Birch IM, 67:108: 67:133 Bixenman HA, 71:27 Bjerre P. 69:118 Blij-Philipsen Mvd, 71:178 Blin N, 70:108 Block AM, 71:105 Block AW, 67:141 Bohjanen PR, 68:34 Bohling T, 65:141; 68:1 Bohm M. 65:83 Bokesov I. 69:38 Bolcato S, 71:144 Bolle J-F, 65:58 Bolund L, 66:16 Bonet C, 69:165 Bonk U, 65:64; 69:68 Booker SV, 67:14 Borrego S, 65:177; 71:183 Bosman FT, 67:35 Bouchot C, 67:149 Bown NP, 69:166 Brandi M-L, 70:68 Brennan H. 69:41 Breschi C, 67:113 Bressel M, 66:93

Bridge JA, 67:145; 69:79

Brock P, 65:104
Browett PJ, 70:142
Bruner B, 71:100
Bruzzone R, 67:50
Bubanska E, 71:67
Bull RM, 67:136
Bullerdiek J, 65:27; 65:64; 67:90; 69:68
Bussel A, 70:125
Busson P, 66:11
Butler MG, 66:108; 71:132
Buzzi M, 67:55

Caballin MR, 69:76 Cabello P. 66:126: 69:74 Caillou B, 67:117 Calabrese G, 65:88; 70:151 Calin G. 70:71 Capra E. 68:140 Caradonna F, 66:63; 66:77 Carbone P. 66:63: 66:77 Cardoso H. 68:122 Carl P. 66:93 Carli M. 71:144 Carli MG, 71:119 Carneiro F, 68:42 Caronia F. 66:77 Carpenter PM, 69:65 Carroll AJ, 68:34 Casadevall C, 69:76 Casalone R, 68:126 Casartelli C, 69:146 Cassiman J-J, 69:60 Castedo S, 67:1; 68:42; 69:31 Casteels-Van Daele M. 65:104 Castoldi G, 71:119 Catalono L, 69:136 Cavalli II, 68:82 Cavdar AO, 69:38 Cedrone M, 66:39 Cepulic M, 65:167 Cerd-Nicols M, 65:173; 70:74 Chaganti RSK, 69:17 Champlin R. 65:100 Chan AYY, 65:74

Chan-Lam D, 70:144

Chan LC, 65:74; 66:79;

69:139: 69:158: 69:163: 70:155 Chandy M. 65:12 Ch'ang H-I. 71:87 Charbonne F, 67:101 Chaves H. 69:141 Chen D-S. 65:161 Chen H-L. 65:161 Chen P-I. 65:161 Chen R-L, 69:25 Chen YC. 71:87 Chen Z, 66:73; 70:103; 70:125 Cheng PNM, 70:155 Chiamenti A. 67:50 Chiaravalli AM, 68:126 Chilla R. 65:27 Chiu T-S, 65:161 Christensen ER, 71:7 Chuang S-M, 69:25; 71:87 Ciccone G, 68:135 Cleaver G. 67:150 Clode A, 67:1 Cochrane DD, 71:40 Coindre I-M. 66:133: 67:149 Colita D. 70:71 Collin F, 66:133 Colozza MA, 67:113 Conic S, 68:78 Copplestone IA, 70:144 Cork A. 65:100 Correia C, 68:42; 69:31 Corson IM, 66:100 Cortinovis M. 70:68 Cotter PD, 70:142 Couzigou P, 67:7 Craig J, 65:93 Cremer T, 70:99 Crist WM, 68:34 Crossen PE, 69:72 Cuneo A, 71:119 Czepulkowski B, 65:51

D
Dadoune J-P, 69:156
Dahir GA, 66:108; 71:132
Dahl RJ, 67:21, 71:76
Dainotti E, 70:68
Dal Cin P, 65:104; 68:32; 68:85; 71:170
Dallapiccola B, 67:28

.

Daniel M-T. 70:146 Danks MK, 70:48 Dastugue N, 67:101 Davare J, 67:79 Davico L, 68:135 Davies SV. 71:148 Davis S. 67:113 De Bellis R. 68:122 De Busscher C. 68:74 de Campos JM, 66:1; 66:28; 66:117: 71:185 De Cuia MR, 66:39 de Graaff WE, 70:12 de Jong B, 68:42; 70:12; 70:85 de Jong Pl. 65:93 de Leeuw B, 71:164 de los Angeles Mori M, 68-122 de Souza MHO, 71:173 de Vries IE, 67:35 De Wever I. 65:104: 68:85 Deerberg J. 68:91 Defferrari R, 67:50 Degen DR, 65:120 Deisseroth A, 65:100 Del Poeta G, 67:28 del Rosario Uriarte M. 68:122 Delaroche I, 67:28 Delmas-Marsalet B, 69:156 Delmer A, 69:156 Delozier-Blanchet CD. 65:58 Deminatti M-M, 65:175 den Ottolander GJ, 65:7 Dennis T, 66:47 Deprest J, 68:32 Devaraj J, 70:136 Devriendt K. 65:104 Dewald GW, 68:60; 71:7 Di Bartolomeo P, 65:88 Dickman PS, 65:152 Diehl SR, 65:68 Diehl V. 67:90 Dietrich CU, 69:118 Dobbs RM, 65:1 Dobrovic A. 69:122 Dofuku R, 69:100 Dohy H, 70:39 Doles 1, 65:130 Dommergues JP, 66:70 Donovan K, 66:100 Donti E, 67:113 Dooley TP, 71:55 Drabek SM, 65:120; 71:125 Drabkin H, 71:15 Dumas F, 67:7 Dutrillaux B, 69:161

E Egozcue J, 69:76 Elner VM, 66:47 Elomaa I, 65:141; 68:1 Enokihara H, 68:95 Epping A, 68:78

Fabbiano F, 66:77 Fagan K, 65:71 Fagioli F, 71:119 Farabegoli P. 67:55 Feiden W, 71:151 Feigin M, 65:32; 70:21 Fenaux P, 65:175 Ferrari L, 71:119 Ferro MT, 69:74; 70:153 Ferro T. 66:126 Fett-Conte AC, 69:141 Feusner I. 69:153 Fibbe WE, 65:7 Fiedler W, 68:49 Flactif M, 65:175 Fletcher JA, 66:100 Florensa L, 65:170; 69:165; 70:152 Fossion E, 71:170 Fraccaro M, 70:68 Franchi PG, 65:88 Friberg L-G, 65:35 Fu S-B, 69:91 Fugazza G, 67:50 Fujimura T. 68:143 Furuta K, 71:155 Furuta S, 68:95: 71:155 Furuya T, 70:132 Fusaro RM, 71:27

G Gaber E, 65:32; 70:21 Gadner H, 71:94 Gaillard N, 67:117 Garcia-Sagredo IM, 66:126; 69:74 Gavarotti P, 68:135 Geissler K, 71:50 Gelabert A, 69:76 Gemmill R, 71:15 Gendron M-C, 69:13 Georgii A, 66:130 Geraedts J, 70:56 Geraedts JPM, 67:35 Geraghty MT, 71:164 Gerald W, 69:17 Giardiello FM, 67:14 Giardino D, 68:149 Giraud B, 67:101

Gladstone B, 66:43 Glukhova LA, 65:147 Goddard K, 71:40 Gollin SM, 65:21; 65:152 Gomes P, 67:1; 68:42; 69.31 Gonzalez FA, 70:153 Gordon RD, 68:78 Goto T. 66:103 Goussot I-F. 67:7 Govaerts LCP, 71:178 Gozdasoglu S, 69:38 Grabovskaya IL, 65:147 Granata G. 66:63 Granata P. 68:126 Granberg S, 65:35 Griffin CA, 65:135; 67:14 Grois N, 71:50 Grote W, 68:91 GU J. 69:51 Guo Y, 65:157; 69:51 Gutman M, 65:111

H Ha SY, 66:79; 69:139 Haas OA, 70:112; 71:50 Haddad FS, 71:105 Hagemeijer A, 65:125 Hallman H, 70:120 Hambraeus G. 66:33 Hamilton SR, 67:14 Han K, 68:99 Hannan MA, 66:120 Hanson CA, 68:34 Hansteen I-L, 70:94 Hara H. 70:77 Harbott J. 68:131 Harris CP, 68:99 Harris M. 67:133 Harrison P. 65:71 Harthoorn-Lasthuizen El. 71:178 Hartley AL, 67:133 Hartmann L, 71:76 Hashimoto T. 70:39 Hast R, 70:79 Haubrich J, 65:27 Haugen A, 70:94 Haus O, 67:101 Hawkins JM, 70:148 He Z, 65:157 Hecht BK, 67:147; 70:81 Hecht F, 67:147; 70:81 Heerema NA, 68:114; 70:148 Hegewisch-Becker S, 68:49 Heim S, 65:79; 66:33; 69:118

Heimann P, 68:74

Heinonen K, 68:104; 70:120 Helio H, 65:141: 68:1 Henn W, 71:151 Henske E, 65:100 Herrmann ME, 67:44 Hertz JM, 66:16 Herzog R, 70:108 Hilgers J, 69:100 Hill AB, 70:48 Hillion I. 70:125 Hilt B. 70:94 Himmelmann A, 65:79 Hirai H. 69:113 Hirata I. 65:107: 66:103 Hirst WIR, 65:51 Hollstein M, 65:111 Hopman A, 70:56; 71:97 Hossfeld DK, 68:49; 70:1; 70:140; 71:180 Houldsworth J. 65:111 Howell RT, 70:144 Huben RP, 71:105 Huffermann K, 66:133 Hukku B. 68:22 Hvde S, 65:71

I losif S, 65:79 Ishida F, 68:95 Ishiguro M, 70:77 Ishikawa Y, 71:22 Islam MQ, 65:35 Ito H, 67:71 Iwabuchi A, 67:71; 68:143 Iwasaki H, 70:77

Jalal SM, 68:60; 71:7 Jambekar NA. 66:43 Ianecka I, 65:21 Janssen HAP, 71:164 lanvier D. 70:125 Jauch A, 70:99 Jawadi NS, 70:62 Jelinek J. 71:67 Jenkins RB, 67:21; 71:76 Jenks HM, 65:125 Jensen MP, 66:16 Jhanwar SC, 69:1 Jimenez F, 65:177 Johansson B, 70:6 Johansson L, 66:33 Iohansson M, 66:33 Johnsen LR, 71:27 Jones PHM, 67:133 Jonveaux P, 66:128; 70:146

Joseph A, 71:15 Jox A, 67:90

Kadam PR. 66:43 Kaipainen A, 65:141; 68:1 Kakati S. 67:141 Kalatzis V, 69:122 Kalousek DK, 71:40 Kamada N, 65:12; 70:39 Kaneko Y, 70:17; 70:77 Kangwanpong D, 69:129 Karaharju E, 65:141; 68:1 Kashimura M, 65:81 Kastendieck H, 66:93 Katsuyama T, 71:155 Kavallaris M, 66:54 Kawakubo K, 68:143 Kawano F, 71:71 Kawasaki S, 71:155 Kearsley JH, 67:65 Keeney G, 71:76 Kelsey AM, 67:133 Kikuchi M, 70:77 Kim S. 68:34 Kimmel DW, 67:21 Kitano K, 68:95; 71:155 Kitchen C, 70:144 Kivioja A, 68:1 Kiyosawa K, 71:155 Klemm SA, 68:78 Klempnauer J, 66:130 Knuutila S. 65:141: 68:1: 68:104: 70:120: 71:15 Kobayashi H. 68:95 Kobayashi R, 71:22 Koch B. 69:126 Kodama A, 68:143 Kohls S, 67:90 Konja J, 65:167 Kools P, 68:85 Kopf I, 65:35 Kornips FHAC, 67:35 Krous HF, 69:65 Krsnik I, 66:126 Krush AJ, 67:14 Kusak ME, 66:1; 66:28; 66:117; 71:185 Kushch AA, 65:147

L Ladenstein R, 71:94 Lai J-L, 65:175 Lalkin A, 70:21 Lalley PA, 67:44 Lampert F, 68:131

69:163

Kwong YL, 65:74; 66:79;

69:139; 69:158;

Landegent JE, 65:7 Larramendy M. 68:104 Larramendy ML, 70:120 Laurent-Puig P. 69:161 Lazar S. 67:14 Le Coniat M. 65:47: 69:13 Leana-Cox J, 70:127 Lee F-Y, 69:25 Lee W, 68:99 Leiden JM, 68:34 Lejeune J, 66:70 Lengauer C, 70:99 Leonard C, 66:70 Leonard JH, 67:65 Leonard P, 67:65 Leone G, 65:115 Leppert M, 71:27 Leseve J-F, 67:7 Leuschner E. 65:64 Levan A, 65:35 Levan G, 65:35 Levis A, 68:135 Li L, 68:131 Li M-j, 69:45 Liang RHS, 66:79 Libert A, 68:74 Lie AKW, 69:158 Liedtke H Ir. 69:141 Lien J T, 70:94 Lilla VC, 68:60 Lin B, 65:157; 69:51 Lin D-T, 71:87 Lin K-H, 69:25; 71:87 Linares G, 67:117 Lindemann U, 69:126 Lishner M, 65:32; 70:21 Liu M-C, 69:25 Liu P, 65:93; 65:100 Liu Q-Z, 69:91 Liu W, 69:139 Llombart-Bosch A, 65:173; 70:74 Locker G, 71:50 Lohmeyer J, 68:131 Long P, 67:14 Longy M, 67:7 Loning T, 71:180 Lopez-Gins C, 65:173; 70:74

Lopez-Yarto A, 69:74

Lowery MC, 67:136 Lu G, 67:81

Luciano L, 69:136

Lunde JH, 71:102

Lynch HT, 71:27

Lynch JF, 71:27

Lu P, 69:91

Lu Y-J, 69:91

M Mackie PH, 70:148 Mahlamaki E, 68:104 Makuuchi M, 71:155 Malet P, 67:101 Malkin D. 66:83 Malone PS, 65:21; 65:152 Malvezzi M, 68:82 Mamaeva S, 68:52 Mancini M. 66:39 Mandahl N. 66:33 Mano H, 69:113 Manor A, 65:111 Manor Y, 65:32; 70:21 Mansoor AM, 65:12 Maraschio P. 70:68 Marosi C, 71:50 Marras S, 68:32 Martin N, 68:78 Martin-Noya A, 71:183 Martinelli G, 67:50; 67:55 Marx P. 67:35 Mascarello JT, 69:65 Masi M. 67:28 Massaad L, 66:11 Matsuda I, 70:17 Matsui Y, 70:17 Matsunaga AT, 69:153 Matsunami H, 71:155 Matsuyama T, 70:17 Mattern VL, 71:55 Matzner Y, 70:117 Mazariego YV, 69:74 Mazza G, 66:113 McGill IR. 65:120: 71:125 Meador RJ, 71:125 Mecucci C, 69:60 Meese E, 70:108 Meisner LF, 68:99 Meloni AM, 65:1: 67:59; 67:79; 69:35; 69:132; 70:85; 71:1; 71:105; 71:164 Meltzer SJ, 70:127 Meroni E, 68:126 Mertens F, 70:6 Meyer-Bolte K, 65:27 Micale MA, 69:7 Michalova K, 71:67 Milot F, 66:70 Miesfeldt S, 68:34 Mikuni C, 66:135 Minamihisamatsu M, 65:81 Minelli E, 68:126 Mingarelli R, 67:28 Mirabelli D, 68:135 Mir R, 69:76

Mirto S, 66:77

Mitani K. 69:113 Mitchell ELD, 67:108 Mitelman F, 65:79; 66:33; 70:6 Miura AB, 71:176 Miura I. 71:176 Miura K. 71:71 Moerman P. 65:104: 68:32 Moertel CA, 67:21 Mohamed AN, 67:44: 70:62 Mohammad RM, 70:62 Monaco AP, 71:164 Monpoux F, 71:100 Montaldi A, 71:144 Montero S, 65:170 Moore CM, 71:55 Moore GE, 69:108 Mor O, 65:111 Morandini R, 68:74 Morgan R, 66:73; 70:103; 70:132 Morizio E, 70:151 Morris M, 65:58 Morrison MJ, 69:72 Morse HG, 69:108 Motoiu I, 70:71 Motzer RJ, 69:17 Mufti GJ, 65:51 Muhm M. 71:50 Muleris M. 69:161 Murthy PBK, 65:12 Müllenbach R. 70:108 Müller-Hermelink A, 68:91 Musolino C, 66:113

N Nadeau S. 71:15 Naeem R, 66:100 Nagler A, 65:32 Nair CN, 66:43 Naito H, 71:22 Nakayama J, 71:155 Nakic M, 65:167 Nanba K, 71:155 Nanni M. 66:39 Nawata H, 65:107; 66:103 Neerman-Arbez M, 65:58 Neff JR, 67:145; 69:79 Neri G, 65:115 Neumann E, 71:40 Nicolai M, 70:151 Nicoletti B, 67:28 Nicolo G, 67:149 Nielsen JL, 65:120; 71:125 Nielsen KB, 70:79 Ninfo V, 71:144 Nishimura J, 65:107; 66:103

Nobbs MC, 70:144 Nolte M, 66:130 Norman MG, 71:40 Nylund SJ, 70:120

O Ogawa S, 69:113 Oguma N, 70:39 Ogur G, 68:74 Ohgami A, 70:77 Ohjimi Y, 70:77 Ohyashiki JH, 67:71; 68:143 Ohyashiki K, 67:71; 68:143 Oosterhuis JW, 70:12; 70:85 Ost A, 70:79 Owade JMN, 68:147 Ozisik YY, 67:59; 67:79;

69:35; 69:132; 71:1

P Paetau A. 68:104 Pagliaro LC, 67:95 Palau F, 65:76 Palka G, 65:88; 70:151 Palmer CG, 68:114 Palmer JH, 69:129 Pamir A, 69:38 Pandis N. 69:118 Pandita R, 68:147 Panzica G. 67:55 Papa G. 67:28 Parikh PM, 66:43 Parmentier C, 67:117 Parody R, 65:177; 71:183 Parrington JM, 70:85 Parshad R, 70:25 Pasquini R, 68:82 Pauwels R, 70:56; 71:97 Paweletz N, 70:31 Pawlita M, 67:90 Pearce-Birge L, 70:103 Pearson ADJ, 69:166 Pedersen S, 66:16 Pedeutour F, 66:133, 67:149 Pehamberger H, 71:50 Peier AM, 71:105 Peila R. 65:88 Pejovic T. 65:79 Pelliconi S. 67:55 Pereira MSO, 71:173 Perissel B, 67:101 Pernice F. 66:113 Persons D, 71:76 Pestaa A, 66:1; 66:28;

66:117

Peters GB, 69:122 Petkovic I. 65:167 Petti MC, 66:39 Peydro-Olaya A, 65:173; 70:74 Pezzolo A. 70:68 Pfreundschuh M, 69:126 Philip P, 71:100 Piantadosi S, 65:135 Pignatti PF, 67:50 Pirc-Danoewinata H, 71:50 Pittman SM, 66:54 Piva N. 71:119 Podratz K. 71:76 Poissonnier M. 66:70 Polito P, 69:136 Pontes JE, 65:1 Popp S, 70:99 Porfirio B, 67:113 Portentoso P, 68:126 Porter PA, 71:55 Potter W, 71:105 Powell IJ, 69:7; 71:105 Powell M. 67:59 Pozzi E. 68:126 Pralle H. 68:131 Prentice HG, 70:148 Previati R, 71:119 Price FM, 70:25 Prieto F, 65:76 Provisor AJ, 70:148

Q Qureshi F, 69:35

Pushpa V, 65:12

Rainho CA, 69:146 Ramaekers F, 70:56; 71:97 Ramesh KH, 71:27 Ramond S, 69:156 Ranzani GN, 65:111 Rao SR, 66:43 Rath F-W, 71:139 Ratner S, 67:44 Ravia Y, 65:111 Ravid M, 70:21 Raynaud SD, 71:100 Redman JF, 69:57 Rege-Cambrin G, 68:135 Reid MM, 69:166 Reilly P, 68:114 Resau J, 69:1 Resino M, 66:126; 69:74; 70:153 Reuter VE, 69:17 Rey JA, 66:1; 66:28; 66:117; 71:185

Revnolds IE, 65:68 Rhim IS, 68:22 Ribeiro EMSF, 68:82 Rieck J. 71:180 Righi R, 68:126 Rigolin GM, 71:119 Rindi G, 68:140 Ritterbach J. 68:131 Rizzi N, 68:149 Robichaux W, 65:152 Robinson ES, 71:55 Rodewald A, 66:93 Rodriguez E, 69:17 Rogatto SR, 69:146 Rohen C, 69:68 Roloson Gl. 69:57 Rondez R, 65:58 Rondinelli MB, 66:39 Roozendaal KI, 65:7 Roque L. 67:1, 69:31 Rosenblum-Vos LS. 70:127 Rotman G, 65:111 Rotoli B, 69:136 Rousselet G, 66:11 Rowley S, 65:135 Rutherford JC, 68:78 Ruutu T. 68:104. 70:120 Ryan JR, 69:35 Rydstedt LL, 67:44

Sackey K, 66:120 Sadamura S, 65:107: 66:103 Sainati L, 71:144 Sait SNJ, 67:141 Saito H, 68:95 Saitta A, 66:113 Sakr WA, 69:7 Salmon R-J, 69:161 Salzer-Kuntschik M. San Roman C, 66:126 Sanada I, 71:71 Sandberg AA, 65:1; 66:73; 67:59; 67:79; 69:35; 69:132; 70:85; 70:103; 70:132; 71:1; 71:27; 71:105;, 71:164 Sanford JS, 69:7 Sanford KK, 70:25 Sankary S, 65:21; 65:152 Sans-Sabrafen I. 65:170: 69:165: 70:152 Santi G, 68:140

Santibanez-Koref MF. 67:108 Santoro A, 66:77 Santos G, 65:135 Saragas E, 66:75 Sarasa JL, 66:1; 66:117 Sasso I. 67:71 Sato H. 65:107: 66:103 Sato I, 66:135 Sato M, 71:71 Sato Y. 69:113 Saura R, 67:7 Sawyer JR, 69:57 Scapinello A, 71:144 Scappaticci S, 68:140; 70:68 Schad CR, 68:60: 71:7 Schaison G, 65:47 Schapers R, 70:56; 71:97 Schapiro MB, 70:25 Scheithauer BW, 67:21 Schlegelberger B, 68:91 Schlumberger M, 67:117 Schmalenberger B, 66:93 Schmidt H, 71:139 Schraffordt Koops H, 70:12 Schroder HD, 69:118 Schroeter D. 67:126 Schrovens W. 68:131 Schwab M, 65:111 Schwartz HS, 66:108; 71:132 Schwartz S, 70:127 Schwarz M. 69:126 Sciot R. 68:85: 71:170 Sciotto CG, 67:136 Secker-Walker LM, 69:129: 70:148 Seguchi S, 70:17 Selleri C, 69:136 Sen P. 66:23 Seong D, 65:93 Seong DC, 65:100 Seruca R, 68:42 Sessarego M, 67:50 Sethuraman S, 65:12 Seyger M, 70:112 Shah NK, 65:135 Shen M-C, 71:87 Sherwin RN, 65:21 Shi G, 70:140 Shido T, 71:71 Shikano T, 71:22 Shiloh Y, 65:111 Shimodaira S, 68:95 Shing MK, 69:163 Shiraishi Y, 68:70; 69:49 Shridhar V. 71:15 Sica S. 65:115

Siciliano J, 65:93; 65:100

Siciliano MJ, 65:93; 65:100 Siegfried JM, 69:1 Sigut D, 66:120 Silva MLM, 71:173 Simoni G, 68:149 Singh S, 70:136 Sinke RJ, 70:85; 71:164 Skaug V, 70:94 Skiaerris I. 65:79 Sledge G Jr. 68:114 Sleijfer DT, 70:12 Smeets W. 70:56: 71:97 Smith D. 71:15 Smith MR, 70:62 Smith SE, 71:15 Soares J, 67:1; 69:31 Soares P, 67:1; 68:42; 69:31 Sobrinho-Simoes M. 68:42 Sole F, 65:170; 69:165; 70:152 Sonnenberg A, 69:100 Sonovama M, 68:95 Spanedda R, 71:119 Speicher MR, 70:99 Sperandio-Roxo VMM, 68:82 Spina MP, 68:140 Spurbeck JL, 71:7 Squadrito G. 66:113 Sreekantaiah C, 69:17 Staats B, 69:68 Stalboerger P, 71:76 Stalboerger PG, 67:21 Standen GR, 69:22 Stanley WS, 67:95 Stary J. 71:67 Stasi R, 67:28 Steegman JL, 69:74 Stefanescu DT, 70:71 Steinbok P, 71:40 Stenke L, 70:79 Stephens KE, 65:130 Steudel W-I, 71:151 Stewart BW, 66:54 Stone DM, 65:130 Stone JF, 66:73; 70:103 Storto PD, 65:21 Stowasser M, 68:78 Strehl S, 71:94 Stul M. 69:60 Stuppia L. 65:88 Su I-J, 69:25 Suciu S, 70:1 Suenaga M, 71:71 Sugimoto K, 69:113 Suijkerbuijk R, 70:108 Suijkerbuijk RF, 66:133; 70:85; 71:164

Sunde L, 66:16 Sunguroglu A, 69:38 Surti U, 67:59; 67:79; 69:132; 71:1 Swaney WP, 65:152 Szymanska J, 65:141; 68:1

Tada M, 66:135 Taguchi T, 69:1 Taillandier J, 67:101 Taine L, 67:7 Tajara EH, 69:141 Takaku F, 69:113 Takatsu H, 71:176 Takatsuki H, 66:103 Talpos GB, 67:44 Tanaka K, 70:39 Tanindi S, 69:38 Taniwaki M, 70:99 Taplett J, 67:150 Taquia E, 65:64 Tarkkanen M. 65:141: 68:1 Tarone RE, 70:25 Tayveb Tayveb M, 67:145 Tchernia G, 66:70 te Meerman GJ, 70:12 Tedeschi B, 67:28 ten Kate J, 67:35 Tenaglia R, 70:151 Testa JR, 69:1 Testoni N, 67:55 Thibodeau SN, 71:7 Thode B, 65:27 Thomas G, 69:161 Thom JA, 69:141 Thompson CB, 68:34 Thompson FH, 70:48 Thompson P, 69:22 Thompson PW, 69:41; 71:148 Thonnes M, 71:151 Tiede AL, 71:7 Tien H-F, 69:25; 71:87 Tobon H, 67:79 Todd I. 71:105 Tokutake AS, 68:82 Tominaga R, 71:71 Tonato M, 67:113 Torfi H, 69:153 Torlontano G, 65:88 Totzeck B, 65:83 Toyama K, 67:71; 68:143 Toyoshima H, 69:113 Travagli JP, 67:117 Trent JM, 66:47; 66:137; 70:48 Trevor KT, 67:44

Tribalto M, 67:28

Tricker K, 67:133
Trujillo JM, 65:100
Tsai T-F, 69:25
Tsoi WC, 69:163
Tsuchiya H, 70:17
Tsukamoto A, 71:71
Tugizov SM, 65:147
Tumewu P, 70:142
Tunny TJ, 68:78
Tura S, 67:55
Turc-Carel C, 66:133
Turker A, 69:38
Tursz T, 66:11

U Umemura T, 65:107, 66:103 Unal E, 69:38

Valdes E, 68:32 Valente AN, 71:173 Vamos E. 68:74 Van Damme B, 68:85, 71:170 Van de Klundert W. 66:133 Van de Ven W, 68:85 Van Dekken H, 66:131 Van Den Berghe H, 65:104; 68:32: 68:85: 69:60; 71:170 van der Keur D, 65:7 van der Plas DC, 65:7 van Echten J. 70:85 van Echten-Arends J, 70:12 Van Gaal J. 66:133 Van Haelst A, 66:133 van Kessel AG, 70:85; 71:164 VandeBerg JL, 71:55 Vanni R, 68:32 Vaquero J, 66:1; 66:117 Vejerslev LO, 66:16 Venditti A, 67:28 Venti G. 67:113 Venuat AM, 67:117 Verbeek W, 70:120 Verna T, 70:151 Vernole P, 67:28 Vig BK, 67:126; 70:31 Vigui F, 69:156 Villegas A, 70:153

Vincent P, 70:136

Vine AK, 66:47

Vineis P, 68:135

71:125 Vyguinnyi S, 68:52

Von Hoff DD, 65:120;

Wallace SA, 67:133 Walsh JT, 65:120; 71:125 Walter TA, 71:180 Wan TSK, 66:79; 69:163; 70:155 Wang C-H, 71:87 Wang M. 65:157 Warburton D. 65:100 Wass J, 70:136 Weber-Matthiesin K, 68:91 Weh HJ, 68:49; 70:1; 70:140 Wei D, 65:74 Wei DCC, 70:155 Welborn J, 67:150 Wellborn JL, 65:125 Werner M, 66:130 Wessels JW, 65:7 Whittaker JA, 69:41; 71:148 Wiegant I, 71:67 Wieland I. 65:83 Wiener E, 65:152 Wiersema-Buist J, 70:12 Wilbrink M. 71:164 Willem P, 66:75 Wiltshire RN, 66:47 Wingaard JR, 65:135 Winkel EW, 69:57 Winkemann M, 68:91 Wobst G, 65:27 Woessner S, 65:170; 69:165; 70:152 Wolf J, 67:90 Wolman SR, 67:44; 69:7 Wood M. 69:129 Woodhouse B, 67:108 Wrba F. 71:94 Wright F. 69:129 Wullich B, 69:126; 71:151

X Xiao H, 67:141 Xiao S, 69:91 Xue Y, 65:157; 69:51

Y Yabu U, 71:155 Yamada S, 71:155 Yamaguchi A, 71:176 Yan Y-S, 69:91 Yarkoni S, 65:32 Yavuz G, 69:38 Yazaki Y, 69:113 Yehuda O, 70:117 Yoshizawa K, 71:155 Young G, 70:136 Yu F, 65:157 Yu M-T, 65:100 Yuen PMP, 69:163 Z Zaccaria A, 67:55 Zalupski MM, 69:35 Zang KD, 69:126; 71:151 Zeller W, 70:1 Zhang R, 69:51 Zhao Y, 65:93; 65:100 Zhou J-y, 69:1 Zhou Z, 65:157 Zinsmeister AR, 71:7 Zittoun R, 69:156 Zollino M, 65:115

Subject Index to CGC Volumes 65-71

Acrocentric Chromosomes increased association during colcemid, 68:52 in human cell line, 68:52 Acute Erythroleukemia (M6) CD34-positive, 71:119 chromosome changes, 71:119 del(9q) in, 66:79 inv(8) in, 66:77 juvenile CML transforming to, 71:67 pericentric inv(8) in, 66:77 Acute Lymphoblastic Leukemia (ALL) abnormal DNA fragments, 68:34 bcr/abl cosmid probe for Ph, 70:103 bcr/abl probe, 71:7 chromosome changes in BMT cases, 65:135 cytogenetics of, 67:137; 68:60; 69:122, 129 del(6q) more common in men, 70:6 der(14) in L3, 71:178 Down syndrome and ALL, 70:148 Down syndrome mosaicism and ALL, 66:70 duplication of der(14) in L3, 71:178 early B-precursor ALL, 69:163 FISH studies in, 71:7 flow cytometry and cytogenetic analysis, 67:136 hyperdiploidy in fixed cells, 67:137; 70:6 infantile, 69:153 molecular studies in, 69:122 Ph in ALL, 70:103, 153; 71:7 T-ALL, 69:122 t(1;19) more common in women, 70:6 t(2;9)(p12;p23) in early pre-B ALL, 69:163 t(4;11)(q21;p14-15) in T-ALL, 69:122 t(4;11;13)(q21;q23;q12-14) in, 69:153 t(6;11)(q26-27;q23) in T-ALL, 65:125 t(8;14) more common in children with L3, 70:6 t(8;14)(q11;q32) in, 67:55 t(8;14)(q11;q32) in Down syndrome and ALL, 70:148 t(8;14)(q24;q32) in L3, 71:178 t(9;22) more common in adults with L1 + L2, 70:6 t(14;18)(q32;q21) in L2, 65:177 with biphenotypic features, 69:129 +4 in L2, 65:115 +4 in T-ALL, 69:139 +4,+17 and Ph, 65:115 -20 in adult ALL, 69:165 +21 (constitutional) and ALL, 66:70; 70:148

Acute Megakaryocytic Leukemia; see Acute

childhood MDS progression to M7, 70:17

chromosome changes in, 65:51; 67:81; 70:17; 71:119

Acute Megakaryocytic Leukemia (M7)

Megakaryocytic

Leukemia (M7)

derivative 11 in, 66:75 fragile sites in, 65:51 one disease or several?, 67:81 t(1;22)(p13;q13) in, 67:81 t(7;11)(q11;q24) in child, 66:75 t(12;22)(p13;q13), 65:81 3q21q26-7 involvement, 67:81 Acute Monocytic Leukemia (M5) abnormal DNA fragments, 68:35 CD34-positive, 71:119 chromosome changes in, 65:51; 66:126; 70:1, 6; 71:119, del(2)(p23) in M5a, 66:126 der(11q) more common in children, 70:6 FISH and marker chromosomes, 70:99 fragile sites in, 65:51 immunophenotype, 70:1 infiltration of skin, 71:50 multilineage involvement, 70:1 secondary M5a, 66:126 tetrasomy 8, 69:126 tetrasomy 8 in M5a, 71:50 translocation of CD3D gene, 71:173 t(6;11)(q26-27;q23) in, 65:125 t(9;11;14) in M5a, 71:176 t(11;17)(q23;q21) in, 71:173 9p and 11q as critical regions, 71:176 -16, 1p- and 21q+ and FISH, 70:99 Acute Myeloblastic Leukemia (M1) C-anaphase in, 71:148 CD34-positive, 71:119 chromosome changes in, 65:51; 70:1; 71:119 FISH in, 66:73 fragile sites in, 65:51 immunophenotype, 70:1 multilineage involvement, 70:1 +4 in, 68:82 t(16;21)(p11;q22) in, 70:144 Acute Myeloblastic Leukemia (M2) CD34-positive, 71:119 chromosome changes in, 65:51; 66:39; 70:1, 6, 146; 71:119 FISH in, 66:73 fragile sites in, 65:51 immunophenotype, 70:1 MAKA and remission, 71:119 multilineage involvement, 70:1 t(2;4)(p23;q25) in M2, 70:140 t(7:11)(p15:p15) with low LAP, 68:143 t(8;21) more common in children, 70:6 t(Y;1) in MDS evolving to M2, 70:136 -Y in t(8;21) and age, 70:6

5q- preceding M2, 70:146

+14 in. 66:39

22q- without bcr rearrangement, 67:141

Acute Myeloid Leukemia (AML); see Acute

Nonlymphocytic

Leukemia (ANLL)

chemical exposure, histology and cytogenetics, 68:135

chromosome changes, 70:1

expressing lymphoid antigens, 71:100

FISH analysis, 67:95; 70:103

immunophenotype, 70:1

in Fanconi anemia, 65:47

ins(3;4) in, 71:102

inv(14)(q11q32) in, 71:100

multilineage involvement, 70:1

Ph with FISH, 70:103

soft tissue tumors in, 71:71

t(7;11)(p15;p15) with low LAP, 68:143

+4 in M2, 71:71

22q- without bcr rearrangement, 67:141

Acute Myelomonocytic Leukemia (M4)

CD34-positive, 71:119

chromosome changes in, 65:51; 69:156, 158; 70:1, 6;

71:119

der(16q) more common in adults, 70:6

fragile sites in, 65:51

granulocytic sarcoma and Ph, 69:38

immunophenotype, 70:1

in XYY male, 69:156

MAKA and remission, 71:119

multilineage involvement, 70:1

t(3;11)(q26;q13) in, 69:158

t(15;17)(q24;q21) in, 70:79

+4 in, 65:115; 68:147

+4 in Kuwaiti case, 68:147

+4 in M4, 70:152

-7 more common in children, 70:6

Acute Nonlymphocytic Leukemia (ANLL)

C-anaphase in, 71:148

CD34-positive, 71:119

chemical exposure, histologic type and cytogenetics,

chromosome changes in, 65:51, 118; 67:28, 81; 68:60; 70:1: 71:119

chromosome changes in BMT cases, 65:135

clinical correlations, 71:119

clinical significance of cytogenetics, 67:28

cytogenetics of M7, 67:81

de novo ANLL, 67:28

FISH and marker chromosomes, 70:99

FISH and morphology, 67:95

fragile sites in, 65:51

immunophenotype, 70:1

jumping translocations of 1q, 71:22

MAKA and remission, 71:119

MRD, PCR and BMT, 65:88

multilineage involvement, 70:1

NN, AN and AA classification, 67:28

tetrasomy 8 in M5, 69:126

t(7:11)(p15:p15) with low LAP, 68:143

+4 and dmin in ANLL, 69:41

Acute Promyelocytic Leukemia (APL)

complex translocation, 69:113

molecular studies in, 69:113

PML/RARa fusion gene, 69:113

t(15:17:18) in, 69:113

Adenomas

pituitary, 68:140

pleomorphic of salivary gland, 65:27

prostatic, 66:165

of colon, 67:7

Adrenocortical tumors

aldosterone producing tumor, 68:78

benign and malignant, 66:165; 68:78

chromosome changes, 66:165; 68:78

Age and gender and chromosome changes

leukemias, 70:6

primary changes, 70:6

secondary changes, 70:6

Agnogenic Myeloid Metaplasia (AMM)

t(8;12) in, 71:183

+8 in, 71:183

Alzheimer disease

cancer proneness, 70:25

DNA repair, 70:25

X-ray induced chromatid damage, 70:25

Anaphase

C-anaphase in M1, 71:148

Animals

cytogenetic changes in nevi of opossum, 71:55

opossum cell line, 71:55

Astrocytoma

allelic imbalance, 66:154

chromosome loss, 66:145

chromosome 6, 66:154; 71:40

chromosome 10, 66:145

cytogenetics of, 71:40

pediatric, 71:40

Ataxia Telangiectasia (AT)

lack of p53 mutations, 66:128

molecular studies in, 66:128

B-cell Chronic Lymphoproliferative Disorders

chromosome changes, 65:170

del(7)(q32) in, 65:170

hairy cell leukemia, 65:170

lipopolysaccharide and B-cell growth factor for culture,

NHL (leukemic phase), 65:170

splenic B-cell lymphoma, 65:170

bcr; see CML and Ph chromosome

Biphenotypic leukemia

chromosome changes in, 69:129

pre-B/AML, 69:129

Bladder cancer

analysis of urine, washings and tumor, 71:105

cell line, 67:101

cytogenetic changes, 66:159; 67:101; 70:56; 71:97

del(9)(q11q21.2) in cancer, 69:76 FISH analysis, 67:101; 70:56; 71:97, 105 karyotype and FISH analysis, 71:97; 105 heterogeneity, 70:56 monosomy 9 in, 71:97

oncogenes and suppressor genes, 66:153

Blast crisis in CML

clinical and biologic features, 71:87 double t(1;7)(p36;p11) in, 65:107 isodicentric Ph in accelerated phase, 66:113 lymphoid, 66:103 megakaryocytic crisis, 65:107 myeloid vs. lymphoid crisis, 71:87 variant Ph in, 65:107; 68:131 14q+ in lymphoid crisis, 66:103

Bloom syndrome

B-lymphoblastoid cell lines, 68:70 cell hybridization, 69:45 p53 mutation, 68:70 SCE levels in cells, 69:45 transformed cell lines, 68:70

Bone and soft tissue tumors

benign tumors, 68:1 bone tumors, 68:1 consecutive study of 249 cases, 68:1 cytogenetic changes, 66:148; 68:1 FISH studies in bone tumors, 68:1 telomeric association, 68:1

Bone Marrow Transplantation (BMT) BMT and MRD, 65:88 chromosome changes in, 65:135 detection of MRD, 65:88

in hematologic disorders, 65:88, 135 PCR in hematologic disorders, 65:88

purged autologous marrow, 65:135 Brain tumors

chromosome 22 abnormalities, 66:1; 69:35 LOH in, 66:1 molecular studies, 66:1

osteosarcoma, secondary, 69:35 Breast tumors

benign epithelial tumors, 69:68 chromosome changes in, 65:64; 66:153, 163, 164; 69:68, 91

chromosome 13 in murine tumorigenesis, 69:100 chromosomes 1, 3 and 6 in, 69:91 comparative genomic hybridization, 66:142 cytogenetic changes in ductal cases, 66:163:

cytogenetic changes in ductal cases, 66:163; 69:91
ductal, 66:163, 164; 69:91
fragile sites in breast cancer patients, 67:113, 147
fragile sites in familial, 67:108
gene in, 66:143
gene in murine tumors, 69:100
murine tumors, 69:100
polyclonal origin in patient with sarcoma, 66:153
+8 in, 65:64
+8 in ductal cancer, 66:164

12q13-15 in benign tumors, 69:68

Burkitt lymphoma
cell line, 67:90
E-B virus integration, 67:90
jumping translocations of 1q, 71:22
t(11:19) in, 67:90

Cancer

breast, 65:64
kidney, 65:1
marker BCEI, 66:168
meiotic origin of trisomic tumors, 70:112
nasopharyngeal, 66:11
oncogenes and chromosomes, 70:81
ovarian, 65:35
prostate, 66:93
Carcinoids

bronchial, 66:33

cytogenetic studies, 66:33

Cartilaginous tumors benign tumors, 69:79 biologic and clinical significance of

chromosome changes, 69:79 chondroblastoma, 69:79 chondroma, 69:79 chondrosarcoma, 69:79 cytogenetic changes, 69:79 enchondroma, 69:79 malignant tumors, 69:79 molecular studies, 69:79

osteochondroma, 69:79 C-banding

chromosomes 1, 9 and 16, 65:35 heterochromatin in ovarian cancer patients, 65:35

Cell lines B-cell, 70:62

bladder cancer, 67:101
Burkitt lymphoma, 67:90
cell differentiation in, 65:147
cervical cancer, 66:164
cytogenetic aneuploidy in nevi, 71:55
cytogenetic stability of squamous cell
cancer line, 66:154; 70:48, 62
cytogenetic studies in, 65:147, 161; 66:54
E-B virus associated lymphoma, 71:155
from UV-induced melanocytic nevi, 71:55
hepatocarcinoma line (PLC-PRF-5), 65:147
karyotypes in T-cell line, 66:54
liver cancer, 65:161
loss of tumorigenicity, 70:48

loss of tumorigenicity, 70:48 lymphoma, 70:62; 71:155 lymphoma from liver transplant patient, 71:155 melanoma, 69:108 methotrexate-resistant leukemia, 70:48 molecular studies in colorectal line, 66:154 opossum nevi, 71:55

ploidy in T-leukemia cell line, 66:54 SW480 (transfected) and c-Ha-*ras*, 67:35 T-leukemia, 66:54

telomeric sequences in HL-60 cell line, 70:132 thyroid carcinoma, 67:117

t(2;3)(p11;q27) in liver transplant patient, 71:155

Central Nervous System (CNS)

chromosomes 6, 1 and 11 in, 71:40

CNS tumors, 71:40

cytogenetics of tumors, 71:40

pediatric tumors, 71:40

Centromere

in mouse, 70:31

separation, 70:31

structure and function, 66:143

Cervical carcinoma

cell lines, 66:164

chromosome changes, 66:164

Chondroblastoma

biologic and clinical significance of chromosome

changes, 69:79

cytogenetic studies, 68:1; 69:79

FISH studies, 68:1; 69:79

molecular studies, 69:79

Chondrosarcoma

biologic and clinical significance of chromosome

changes, 69:79

cytogenetic and molecular studies, 66:150; 68:1; 69:79;

71:144

FISH studies, 68:1; 69:79

in child, 71:144

mesenchymal, 71:144

t(11;22)(q24;q12) in, 71:144

Chordoma

biologic and clinical significance of chromosome

changes, 69:79

cytogenetic changes, 69:79

FISH studies, 69:79

molecular studies, 69:79

Choriocarcinoma

cytogenetic changes, 68:149

direct chromosome analysis, 68:149

Chromosome(s)

acrocentric association, 68:52

chromosome 5 and tumorigenesis, 68:22

chromosome 22 c-DNA, 66:168

dicentric, 67:126

in ovarian cancer, 71:76

instability and SV40 antigen, 66:153

microdissection in tumors, 66:143, 149

radiosensitivity at telomeres, 66:144

telomere capture, 66:155

1 in hepatocellular cancer, 66:130

1 in renal cancer, 65:1

1 in Sertoli cell tumor, 65:79

1, 3 and 6 in breast cancer, 69:91

3, 6 and 8 in uveal melanoma, 66:47

5 and 7 in Fanconi anemia, 65:47

6, 1 and 11 in brain tumors, 71:40

6q and cell immortalization, 66:152

7 and 10 in prostate cancer, 66:93

8 in breast cancer, 65:64

9 in squamous cell cancer of epiglottis, 66:23

10 in astrocytoma, 66:145

12 in colorectal cancer, 69:161

12 in germ cell tumors, 68:114

22 in brain tumors, 66:1

22 in meningioma, 66:117

22 in neurofibrosarcoma, 66:28

Chromosome changes

chromosome aberration vs. age and gender, 70:6

in ALL, 68:60

in ANLL, 65:51; 67:28; 68:60; 71:119

in B-cell chronic disorders, 65:170

in BMT patients, 65:135

in bone tumors, 68:1

in brain tumors, 71:40

in breast cancer, 65:64; 69:91

in carcinoids, 66:33

in cartilaginous tumors, 69:79

in CLL, 65:157; 68:60

in CML, 65:7

in CMMoL, 65:7

in colonic polyps, 67:7

in ependymoma, 69:146; 71:40

in esophageal cancer, 70:127

in ET, 65:51

in Fanconi anemia, 65:47

in intestinal polyps, 67:14

in leiomyoma, 69:132

in leiomyosarcoma, 65:21

in LPD, 68:60

in lymphomas, 68:60; 69:25

in MDS, 65:12, 51; 67:71; 68:60, 95

in meningioma, 66:117

in Merkel cell carcinoma, 67:65

in MPD, 68:60

in nasopharyngeal cancer, 66:11

in ovarian cancer, 65:35

in prostate cancer, 66:93

in PV, 65:51

in renal cancer, 65:1

in salivary gland adenomas, 65:27

in testicular tumors, 65:58

in thyroid adenomas, 67:1

in tumors, 68:60

in uveal melanoma, 66:47

repetitive changes in rat skin tumors, 66:152

3q+ detected with painting, 71:67

7 in leiomyoma, 67:59

Chromosome painting

chromosome 6, 66:157

in MDS, 65:175

of insulinoma in MEN 1, 70:68

of t(1;9;22), 65:100

probes, 65:93

tetrasomy 8, 65:175

3qt detected with painting 71:67

Chronic Lymphocytic Leukemia (CLL)

cytogenetics of CLL, 70:21

FISH analysis of individual cells, 68:104; 70:21

FISH in, 66:73; 70:21

karyotypic changes, 65:157; 66:135; 68:60; 70:21

lack of 5' BCL2 rearrangements, 69:72

lipopolysaccharide and B-cell growth factor in culture, 66:135

mitogens, 66:135

t(8;22)(q24;q11) in, 65:157

+12 in, 66:73; 70:21

Chronic Myelocytic (Myeloid) Leukemia (CML)

accelerated phase, 66:113; 70:103

bcr/abl probe detection of Ph, 70:103, 153

bcr breakpoint and chronic phase, 70:39

blast crisis, 65:107; 66:103, 113; 68:122, 131

BMT and remission, 68:122

chemical exposure, histology and cytogenetics, 68:135

chromosome changes in, 65:7, 107; 66:103; 67:50;

68:104, 122; 70:6, 103

clinical and biologic features of blast phase, 71:87

detection of BCR-ABL fusion, 65:32; 70:103

double t(1:7)(p36:p11) in crisis, 65:107

duration of chronic phase and bcr breakpoint, 70:39

FISH analysis of individual cells, 68:104

FISH and t(1;9;22), 65:100

FISH studies of Ph. 70:103, 153

isodicentric Ph, 66:113

juvenile CML, 71:67

megakaryocytic crisis, 65:107

molecular studies in, 66:103; 67:50; 70:39

MRD, PCR and BMT, 65:88

remission in case with t(3:21), 68:122

study of two Ph's, 70:153

t(5;12)(q31;p12) in, 65:7

variant Ph, 65:107; 67:50; 68:131; 70:103

3q+ in juvenile CML, 71:67

14q+ in lymphoid crisis, 66:103

Chronic Myelomonocytic Leukemia (CMMoL)

chromosome changes in, 65:7; 67:71

clinical and cytogenetic correlations, 67:71

+Ph more common in men, 70:6

t(5;12)(q31;p12) in, 65:7

Clear cell sarcoma

of kidney, 66:152

t(4;13)(p14;q32) in tumor of kidney, 66:152

t(12;12)(q13;q12) in CCS of tendons and

aponeuroses, 66:165

Colon

adenomas, 67:7, 14

chromosomes in polyps, 67:7, 14, 123

polyps, 67:7, 14

7q- in colon cancer, 67:123

Colorectal cancer

chromosome changes, 66:166

chromosome 12 and c-Ki-ras, 69:161

cytogenetic and molecular studies in cell line,

66:154; 69:161

FISH analysis, 66:166

mutations in, 69:161

Comparative Genomic Hybridization (CGH)

amplification and deletions in ovarian cancer,

66:157

analysis of tumors, 66:141

global DNA sequence copy number, 66:141

in breast cancer, 66:142

Cytogenetic changes

in ALL, 68:60

in ANLL, 65:51; 67:28; 68:60; 71:119

in B-cell chronic disorders, 65:170

in BMT patients, 65:135

in bone tumors, 68:1

in brain tumors, 71:40

in breast cancer, 65:64; 69:91

in carcinoids, 66:33

in cartilaginous tumors, 69:79

in CLL, 65:157; 68:60

in CML, 65:7

in CMMoL, 65:7

in colonic polyps, 67:7

in ependymoma, 69:146; 71:40

in esophageal cancer, 70:127

in ET, 65:51

in Fanconi anemia, 65:47

in intestinal polyps, 67:14

in leiomyoma, 69:132

in leiomyosarcoma, 65:21

in LPD, 68:60

in lymphomas, 68:60; 69:25

in MDS, 65:12, 51; 67:71; 68:60, 95

in meningioma, 66:117

in Merkel cell carcinoma, 67:65

in MPD, 68:60

in nasopharyngeal cancer, 66:11

in ovarian cancer, 65:35; 71:76

in prostate cancer, 66:93

in PV, 65:51

in renal cancer, 65:1

in salivary gland adenomas, 65:27

in testicular tumors, 65:58

in thyroid adenomas, 67:1

in tumors, 68:60

in uveal melanoma, 66:47

Deletions

del(1)(p11) in PV, 68:66

del(1)(p32) in meningioma, 70:74

del(1)(q32) in NHL/CLD, 68:66

del(2)(p21) in AML, 68:67

del(2)(p23) in AML, 68:66

del(2)(p23) in M5a, 66:126

del(2)(q31) in CLL, 68:67

del(3)(p11-12p14) in PV, 68:67

del(3)(p21-25) in CLD/NHL, 68:67

del(3)(q21) in AML/MDS, 68:67

del(5)(p13) in ATL, 68:67

del(5)(q12-31q31-35) in AML, 68:67

del(5)(q13q33) in MDS, 68:67

del(6)(q13-24q21-27) in ALL, 68:67

del(6)(q21) in AML, 68:67

del(6)(q21) in CLD/NHL, 68:67

del(7)(p12p21) in AML, 68:67

del(7)(q11) in ALL, 68:67

del(7)(q11-34q22-36) in AML, 68:67 del(7)(q22) in leiomyoma, 71:1 del(7)(q22) in MDS, 68:67 del(7)(q32) in ALL, 68:67 del(7)(q32) in B-cell chronic disorders, 65:170 del(7)(q36) in CLD, 68:67 del(8)(q22) in AML, 68:67 del(9)(p13-22) in ALL, 68:67 del(9)(p21) in ALL, 68:67 del(9q) in M6, 66:79 del(9)(q11-22q21-34) in AML, 68:67 del(9)(q11q21.2) in bladder cancer, 69:76 del(9)(q22) in AML, 68:67 del(10)(q24) in CLD, 68:67 del(11)(p11-12p14-15) in AML, 68:67 del(11)(q14) in ALL, 68:67 del(11)(q23) in AML, 68:67 del(12)(p11-13) in ALL, 68:67 del(12)(p12) in AML/MDS, 68:67 del(12)(p13) in CLD, 68:67 del(12)(q14q21) in MPD, 68:67 del(13)(q11-22q14-34) in ALL, 68:67 del(13)(q12q14) in MDS/MPD, 68:67 del(14)(q11-24q22-32) in NHL, 68:67 del(16)(q22) in AML-M4EO, 68:67 del(17)(q22) in AML, 68:67 del(20)(q11) in MDS/MPD/PV, 68:67 del(20)(q11-13) in AML, 68:67 del(22)(q11-13) in ALL, 68:67 del(X)(p11) in renal adenocarcinoma, 70:77 del(X)(q13) in MDS, 68:67 del(X)(q24) in AML, 68:67 homozygous in tumors, 65:83 in ANLL, 65:51; 71:119 in esophageal cancer, 70:127 in ET, 65:51 in hematologic disorders, 68:60 in MDS, 65:51 in PV, 65:51 PCR application in tumors, 65:83 telomeric sequences on deleted chromosomes, 70:132 5q- preceding M2, 70:146 7p- in tumors, 67:123 7q in leiomyoma, 67:59 7q- in tumors, 67:123 20q- in small cell lymphoma, 70:142 22q- without bcr rearrangement, 67:141

Dermatofibrosarcoma protuberans chromosome 17, 66:158; 67:149 karvotype of, 66:158; 67:149 ring chromosomes, 66:158; 67:149 Desmoplastic small round-cell tumors chromosome changes, 69:17 intra-abdominal, 69:17 t(11;22)(p13;q11.2), 69:17

dic(7;9)(p13;p11) in ALL, 68:65 dic(9;12)(p11-13;p11-12) in ALL, 68:65 formation, 67:126 in transformed cells, 67:126

amplification in gastric cancer, 65:111 breaks at active genes, 68:34 fragments in leukemia, 68:34 in Alzheimer disease, 70:25 in Down syndrome, 70:25 recovery of high molecular DNA from tumors, 65:68 repair, 70:25 X-ray induced damage, 70:25 11q23 changes and DNA fragments, 68:34 Double minute chromosomes (dmin) absence of telomeric sequences, 70:132

dmin and gene amplification, 65:120 in gastric cancer, 68:42 in giant cell tumor of bone, 66:108 in lung cancer, 65:120 in ovarian cancer, 71:125 +4 and dmin in ANLL, 69:41

Down syndrome ALL in, 66:70; 70:148 cancer proneness, 70:25 DNA repair, 70:25 early B-lineage ALL, 70:148 t(8;14)(q11;q32) in ALL, 70:148 X-ray induced chromatid damage, 70:25 +21 mosaicism and ALL, 66:70

Duplications chromosomal, in hematologic disorders, 68:60 dup(1)(q11q44) in MPD, 68:66 dup(1)(q21q31) in NHL/CLD, 68:66 dup(1)(q21q32) in MPD, 68:66 dup(11)(q13q23-25) in NHL, 68:66

Enchondroma biologic and clinical significance of chromosome changes, 69:79 cytogenetic changes, 69:79 FISH studies, 69:79 molecular studies, 69:79 **Endodermal Sinus Tumor (EST)** cytogenetic changes, 66:162 in infants, 66:162 **Endometrial polyp** chromosome 12 changes, 66:159; 68:32 12q13-15 changes, 68:32 Endometrial stromal sarcoma

karyotypic changes, 66:159 Eosinophilia in MDS with t(12;21)(q32;q22), 68:95 **Ependymoma**

cytogenetic changes, 66:162; 69:146; 71:40 genesis and progression, 69:146 major numerical changes, 69:146 pediatric, 71:40 structural changes, 69:151 Epstein-Barr Virus (EBV) cytogenetics of EBV tumors, 69:25

EBV and T-cell malignancies, 69:25

in lymphoma from liver transplant patient, 71:155

Esophagus

cell cultures of cancer, 70:127

cytogenetics of cancer, 70:127

squamous cell carcinoma, 70:127

Essential Thrombocythemia (ET)

chromosome changes in, 65:51, 74

fragile sites in, 65:51 near-octapolidy in, 65:74

Ewing sarcoma

chromosome changes, 68:1

extraosseal, 68:1

t(11;22)(q24;q12) in, 66:167; 68:1

Familial adenomatous polyposis

pedigree and phenotype, 66:150

Familial Atypical Multiple Mole Melanoma; see FAMMM

FAMMM syndrome

chromosome instability in, 71:27

familial studies, 71:27

Fanconi anemia

AML in, 65:47

chromosome breakage and cell cycle, 69:13

chromosome changes in marrow, 65:47

MRD, PCR and BMT, 65:88

Fibrolipoma

t(12;16)(q13;q24) in, 67:145

Fibroma

cementifying fibroma, 71:170

chondromyxoid, 65:141; 68:1, 104; 69:79

chromosome changes, 68:1; 69:79; 71:170

FISH analysis of individual cells, 68:104

ins(5;2)(q13;p21p25), 65:141

molecular studies, 69:79

2p-, 65:141

Fibrosarcoma

chromosome changes in, 65:152

congenital, 65:152

infantile, 71:94

t(12;13) in infantile, 71:94

+11,+17,+20 in congenital, 65:152

Fifth International Workshop on Chromosomes

in Solid Tumors

abstracts, 66:141-168

overview, 66:138

preface, 66:137

FISH; see Fluorescence-In-Situ Hybridization

Flow cytometry

hyperdiploidy, 67:136

in ALL, 64:136

Fluorescence-In-Situ Hybridization (FISH)

application of metaphase and interphase chromosomes,

66:141; 70:21

chromosome 17 in dermatofibrosarcoma protuberans,

66:158; 67:149

clinical usefulness, 65:32, 100

detection of BCR-ABL fusion, 65:32; 70:103

detection of variant Ph, 65:100

DNA mapping, 66:144

in ANLL (marker chromosomes), 70:99

in bladder cancer, 67:101; 70:56; 71:105

in bone tumors, 68:1

in germ cell tumors, 68:114; 70:85

in glioblastomas, 66:168

in head and neck tumorigenesis, 66:142

in individual cells, 68:104

in neuroblastoma, 66:145

in non-small cell lung cancer, 69:1

in prostate cancer, 66:142; 69:7

in rhabdomyosarcoma, 68:99

in round cell tumors with t(11;22), 66:167

in tumors, 66:157

in various disorders, 66:73

mapping of region 22q13.1, 70:108

of pancreatic cancer, 66:147

orientation of satellite DNA sequences, 66:143

paraffin vs. metaphase analysis, 69:7

Ph in AML and ALL, 70:103

Ph in CML and ALL, 71:7

phenotype and genotype in individual cells, 68:104

ring chromosome in adipose tumors, 68:85

studies in ALL, 71:7

studies in CML, 65:32, 100; 70:103, 153

telomeric sequences, 70:132

testing of 16 probes on a single slide, 68:91

urine analysis in bladder cancer, 71:105

use in paraffin blocks, 66:157; 68:99

+7 in normal lung and kidney cells, 66:100

+12 in CLL, 70:21

Fragile sites

aphidicolin-induced, 67:108, 113

familial breast cancer, 67:108

folate-sensitive and aphidicolin-induced in cat,

65:130

in breast cancer patients, 67:113; 147

in domestic cat, 65:130

in myeloid disorders, 65:51

in various species, 65:134

Ganglioneuromas

cytogenetics of, 71:40

pediatric, 71:40

Gastric cancer

cytogenetic findings, 68:42

dmin and hsr in, 68:42

DNA amplification, 65:111

molecular studies, 65:111

oncogenes, 65:111

polysomy 2 and 20, 68:42

structural changes of chromosomes 3 and 13, 68:42

Gastrinomas

chromosome changes, 67:44

Gene

amplification in lung cancer, 65:120

amplification in ovarian cancer, 66:155

CD3D gene and t(11;17) in M5, 71:173

dmin and gene amplification, 65:120

GCSF and i(17q) in ANLL, 68:49

gene on chromosome 13 in murine breast tumors, 69:100

genomic fluidity, 66:149, 156

lack of 5' BCL2 rearrangements in CLL, 69:72

multidrug resistance and amplification, 66:148

oncogenes and suppressor genes in bladder cancer,

66:153

PML/RARa in APL, 69:113

p53 in ataxia-telangiectasia, 66:128

p53 in Bloom syndrome, 68:70

p53 in Li-Fraumeni syndrome, 66:83

regulation of amplification, 66:148

Germ cell tumors

chromosome 12, 68:114

extragonadal, 66:167

FISH studies, 68:114

mediastinal and MDS, 66:165

testicular, 68:114

trisomy 2 and 3, 66:161

7q- in tumors of testes, 67:123

12p sequences and i(12p) in testicular tumors,

66:167

Giant cell tumor of bone

chromosome changes in, 66:108; 68:1

FISH studies, 68:1

growth factor beta in, 66:108

molecular studies, 66:108

telomere reduction, 71:132

telomeric association, dmin, rings and other

changes, 66:108

Giant congenital nevus

chromosome changes, 68:74

cultured melanocytes, 68:74

Glioma

chromosome 22 anomalies, 66:1

cytogenetic and molecular studies, 66:154

FISH studies, 66:168

molecular studies, 66:1

Gliosis

clonal cytogenetic changes, 67:21

cytogenetics of gliotic brain, 67:21

Granulocytic sarcoma

AML and granulocytic sarcoma, 69:38

orbito-ocular involvement, 69:38

Ph in case, 69:38

Hairy cell leukemia (HCL)

chromosome changes, 65:170

del(7)(q32) in, 65:170

Hemangiopericytoma

chromosome changes, 66:160; 71:151

extracranial, 71:151

recurrent cytogenetic changes, 66:160; 71:151

t(12;19)(q13;q13.3) in, 71:151

Hepatocarcinoma

cell line, 65;147, 161

chromosome changes in cell line, 65:147, 161;

66:130

chromosome 1, 66:130

Hibernoma

cytogenetic changes, 66:162

Hodgkin disease (HD)

chromosome changes in BMT cases, 65:135

Homogeneously Staining Regions (hsr)

in gastric cancer, 68:42

Hydatidiform moles

genetic analysis, 66:16

molecular studies, 66:16

repeated, biparental and diploid, 66:16

Hypernephroma

chromosome changes, 68:1

bone metastasis, 68:1

Insertions

ins(3;3)(q26;q21q26) in AML, 68:65

ins(3;4) in AML, 71:102

ins(5;2)(q13;p21p25) in a chondromyxoid sarcoma,

65:141

ins(10;11)(p11;q23q24) in AML, 68:65

In-situ hybridization method, 70:21

+12 in CLL, 70:21

Interphase cytogenetics; also see FISH

in bladder cancer, 70:56

Inversions

in hematologic disorders, 68:60

inv(3)(q21q26) in MDS, 68:66

inv(3)(q21q26) in M7, 67:81

inv(7)(q21q31) in breast cancer, 65:64

inv(8), pericentric in M6, 66:77

inv(12)(p12-13q14-15) in endometrial polyp, 68:32

inv(14)(q11q32) in AML with lymphoid antigens, 71:100

inv(14)(q11q32) in T-CLL/T-CLD/T-NHL, 68:66

inv(16)(p13q22) in AML-M4EO/MDS, 68:66

Isochromosomes

idic(X)(q13) in AML, 68:66

in ANLL, 71:119

in hematologic disorders, 68:60

isodicentric Ph, 66:103

i(1q) in Sertoli cell tumor of ovary, 65:79

i(7q) in AML/CLD/MDS/NHL, 68:66

i(8q) and i(17q) in gastric cancer, 68:42

i(8q) in uveal melanoma, 66:47

i(9p) in MDS, 68:66

i(9q) in ALL, 68:66

i(9q) and i(11p) in Merkel cell carcinoma, 67:65

i(9q) in squamous cell cancer of epiglottis, 66:23

i(11q) in AML, 68:66

i(12p) in AML, 68:66

i(14q) in AML/MPD, 68:6

i(17q) and GCSF gene, 68:49

i(17q) in AML/MDS/MPD, 68:66

i(21q) in AML/MDS, 68:66

Karyotypic anomalies

in ALL, 68:60

in ANLL, 65:51; 67:28; 68:60; 71:119

in B-cell chronic disorders, 65:170

in BMT patients, 65:135

in bone tumors, 68:1

in breast cancer, 65:64; 69:91 in carcinoids, 66:33 in cartilaginous tumors, 69:79 in CLL, 65:157; 68:60 in CML, 65:7 in CMMoL, 65:7 in colonic polyps, 67:7 in ependymoma, 69:146 in esophageal cancer, 70:127 in ET, 65:51 in Fanconi anemia, 65:47 in intestinal polyps, 67:14 in leiomyoma, 69:132 in leiomyosarcoma, 65:21 in LPD, 68:60 in lymphomas, 68:60; 69:25 in MDS, 65:12, 51; 67:71; 68:60, 95 in meningioma, 66:117 in Merkel cell carcinoma, 67:65 in MPD, 68:60 in nasopharyngeal cancer, 66:11 in ovarian cancer, 65:35; 71:76 in prostate cancer, 66:93 in PV, 65:51 in renal cancer, 65:1 in salivary gland adenomas, 65:27 in testicular tumors, 65:58 in thyroid adenomas, 67:1 in tumors, 68:60 in uveal melanoma, 66:47 Keratinocytes chromosome 5 and tumorigenesis, 68:22 immortalization, 68:22

Lacrimal gland
cytogenetics of tumors, 66:163
tumors, 66:163
Large granular lymphocyte leukemia
chromosome changes, 69:25

Kidney tumors; see Renal tumors

+7 in normal cells, 66:100

EBV, 69:25
Leiomyoma
biclonality of chromosome 7, 67:59
chromosome 7, 67:59; 79
cytogenetic changes, 69:132
del(7)(q22) in, 71:1
symplastic, 67:79
uterine, 67:59
10q22 in, 69:132
Leiomyosarcoma

chromosome changes in, 65:21 sinonasal tract, 65:21 Li-Fraumeni syndrome complicating conditions, 66:83 molecular studies in, 66:83 p53 in, 66:83 sarcomas and carcinomas in, 66:83

Wilms tumor in, 67:133

Lipoma
bone lipoma, 68:1
chromosome 12 breakpoint, 66:158
cytogenetic changes in, 68:1, 85
FISH studies, 68:1, 85
ring chromosomes and chromosome 12 sequences, 68:85
t(12;16)(q13;q24) in fibrolipoma, 67:145
Liposarcoma
chromosome 12, 66:133, 158
cytogenetic changes, 68:85

Liposarcoma
chromosome 12, 66:133, 158
cytogenetic changes, 68:85
FISH studies, 66:133, 68:85
myxoid, 66:158
origin of ring, 66:133, 68:85
well-differentiated, 66:133
Liver cancer; see Hepatocarcinoma
Loss of Heterozygosity (LOH)
in brain tumors, 66:1
in neurofibrosarcoma, 66:28
LOH of chromosome 1 in rat mammary tumors, 66:152
Lung cancer
der(9;15)(q10;q10) in non-small cell cancer, 69:1
dmin and gene amplification, 65:120

der(9;15)(q10;q10) in non-small cell cancer, 69:
dmin and gene amplification, 65:120
FISH studies in cancer, 69:1
gene amplification, 65:120
molecular studies in, 65:83
non-small cell cancer, 69:1
+7 in normal cells, 66:100
9q:15q translocation, 69:1
Lymphocytes
"rogue" lymphocytes, 66:148

Lymphoma angiocentric, 69:25 cell line with t(2;3)(p11;q27) from liver transplant patient, 71:155 cell line with t(14;18) and t(8;11), 70:62 chromosomal damage, 66:156 chromosome changes in BMT cases, 65:135 c-myc in cell line, 70:62 cytogenetic changes, 68:60; 69:25; 70:62 EBV and lymphoma, 69:25; 71:155 EBV-negative lymphoma, 70:62 HRAS1 alleles outside VTR region, 69:60 immunoblastic, 69:25 molecular studies in, 69:60; 70:62 T-cell, 65:71; 70:71 t(8;11;14) in T-lymphoma, 70:71 t(8;13)(p11.2;q12) in T-cell, 65:71 20q- in small cell lymphocytic, 70:142

Lymphoproliferative Disorders (LPD) chromosome changes, 68:60; 70:6 cytogenetics, age and gender, 70:6

Malignant Rhabdoid Tumor (MRT) of kidney, 66:161 Mammary tumors; see Breast tumors Mapping of breakpoint on chromosome 11, 69:122 of t(4;11)(q21;p14-15) in T-ALL, 69:122

22q13.1 cosmid mapping and locus linkage, 70:108

M-BCR breakpoint; see CML and Ph chromosome

Meiosis

and trisomic neoplasms, 70:112

Melanoma

cell lines, 69:108

chromosome microdissection in, 66:149

chromosome 3 and uveal melanoma, 66:151

chromosomes 3, 6 and 8, 66:47

cytogenetic analysis, 66:47, 151, 164, 165; 69:108

cytogenetic homogeneity, 69:108

FAMMM syndrome, 71:27

uveal, posterior, 66:47, 151

+8 and i(8q), 66:47

Meningioma

chromosome 22 anomalies, 66:1, 117; 70:74

del(1)(p32) as sole anomaly, 70:74

heterozygosity of 22, 66:117

molecular studies, 66:1, 117

RFLP studies in, 66:117

Merkel cell carcinoma

chromosomes 1, 11 and 13 in, 67:65

cutaneous, primary, 66:153

cytogenetic changes, 66:153; 67:65

metastatic, 67:65

MIC2 gene in, 66:153

Mesothelioma

chromosomes 1, 14, 21 and 22, 70:94

karvotypic changes, 70:94

malignant, 70:94

Methods

field-inversion gel electrophoresis, 65:68

recovery of high-molecular weight DNA from tumors,

Minimal Residual Disease (MRD)

BMT and MRD, 65:88

in hematologic diseases, 65:88

PCR and MRD, 65:88

Molecular studies

amplification unit on 12q, 66:146

cloning of t(3;6)(p14;p11), 71:15

in ALL, 67:55

in AML (M2), 67:141

in ANLL with i(17q), 68:49

in APL, 69:113

in ataxia telangiectasia, 66:128

in Bloom syndrome, 68:70

in brain tumors, 66:1

in CML, 65:32; 107; 66:103; 67:50; 70:39

in colorectal cancer, 69:161

in gastric cancer, 65:111

in giant cell tumor of bone, 66:108

in hydatidiform moles, 66:16

in Li-Fraumeni syndrome, 66:83

in lung cancer, 65:83

in lymphoma (HRAS1), 69:60

in MDS, 65:12

in neurofibrosarcoma, 66:28

in T-ALL, 69:122

mapping of 22q13.1, 70:108

methods, 66:142, 144

mvc amplification, 66:155

of abnormal DNA fragments in acute leukemia, 68:34

PCR, deletions and tumors, 65:83

PCR in, 65:83

RAS oncogene, 65:12

telomere reduction in tumor and with aging, 71:132

Monosomy

in hematologic disorders, 68:60

in MDS, 65:53

in PV, 65:54

-7 in M7, 67:81

-9 in bladder cancer, 71:97

-20 in adult ALL, 69:165

22 in PNET, 66:161

Muir-Torre syndrome

cytogenetic studies, 66:162

Multiple Endocrine Neoplasia syndrome (MEN)

chromosome analysis of insulinoma, 70:68

insulinoma in, 70:68

MEN1 and insulinoma, 70:68

Multiple Myeloma

aneuploidy in, 66:156

chromosome changes, 68:60

MRD, PCR and BMT, 65:88

secondary MDS, 70:117

t(1;1) in, 70:117

Murine tumors

chromosome 13, 69:100

gene in trisomic and pentasomic #13, 69:100

Mutations

point in MDS, 65:12

p53 in Li-Fraumeni syndrome, 66:83

Myelodysplasia; see Myelodysplastic syndromes

Myelodysplastic syndromes

cell lineage in MDS, 70:120

chemical exposure, histology and cytogenetics, 68:135

childhood MDS, 70:17

chromosome changes in, 65:12, 51, 175; 66:39; 67:71

clinical aspects and cytogenetics, 67:71

cytogenetic findings in, 65:12, 51, 175; 66:39; 67:71;

68:60, 95; 70:6, 17, 117

cytogenetics, age and gender, 70:6

del(8)(q22) and +19 in, 65:12

eosinophilia with t(12;21)(q23;q22), 68:95

FISH analysis of individual cells, 68:104

FISH in, 66:73; 70:120

immunophenotyping in MDS, 70:120

in India, 65:12

in treated multiple myeloma, 70:117

karyotype in, 65:12, 51, 175; 66:39; 67:71;

70:6, 17, 117

MDS progressing to M7, 70:17

mediastinal germ cell tumor and MDS, 66:165

MRD, PCR and BMT, 65:88

mutations in, 65:12

RAS oncogene, 65:12

SCE in. 65:12

tetrasomy 8 in, 65:175

therapy-related, 70:117

t(1;7) and cell lineage, 70:120 t(12;14)(q13;q32) in RAEB-t, 65:76 t(Y;1) in MDS, 70:136, 155 t(Y;1) in MDS evolving to M2, 70:136

+8 and cell lineage, 70:120 +13 in MDS progressing to M1, 69:136

+14 in, 66:39

Myeloproliferative Diseases (MPD) chromosome changes, 68:60; 70:6 cytogenetic changes, age and gender, 70:6

Myxoma cardiac, 66:155

telomeric association in, 66:155

Nasopharyngeal carcinoma cytogenetic studies, 66:11 xenografted, 66:11 Neoplasms; see Tumors

Neurinoma

chromosome 22 anomalies, 66:1 molecular studies, 66:1

Neuroblastoma

chromosome changes, 65:167 FISH for detection of genomic changes, 66:145 high incidence of constitutional translocations, 69:166 i(1q) and t(1;5)(p22;q13), 65:167 N-myc amplicon, 66:145

1p loss, 66:145 Neurocytoma

central, 65:173 cytogenetics of, 65:173

Neuroendocrine carcinoma; see Merkel cell carcinoma primary cutaneous, 66:153

Neurofibromatosis cellular radiosensitivity, 66:120 molecular studies, 66:28 Saudi patients, 66:120 skin fibroblasts, 66:120 Type 1 and neurofibrosarcoma, 66:28

Neurofibrosarcoma in NF-1, 66:28 LOH in, 66:28 molecular studies in, 66:28

22q12 in, 66:28

Non-Hodgkin lymphoma (NHL); see Lymphoma Nucleolar Organizer Regions (NOR) ectopic in testicular tumors, 65:58

in testicular tumors, 65:58

Oncogenes

and chromosomes, 70:81 BCR-ABL fusion, 65:32 c-Ha-ras in karyotypic instability, 67:35 c-Ki-ras in colorectal cancer, 69:161 ETS1 and abnormal DNA fragments in acute leukemia, HRAS1 in lymphomas, 69:60 in bladder cancer, 66:153

in gastric cancer, 65:111 myc amplification, 66:155 N-myc in neuroblastoma, 66:145 RAS in MDS, 65:12

Osteoblastoma

loss of 17p, 69:65 t(17;20)(p11-12;q11) in, 69:65 unbalanced translocation, 69:65

Osteochondroma

biologic and clinical significance of chromosome changes, 69:79 cytogenetic changes, 69:79 FISH studies, 69:79 molecular studies, 69:79

Osteosarcoma benzpyrene induced in rat, 71:139 chromosome changes, 66:160; 68:1; 69:35; 71:139 chromosome changes in rat osteosarcoma, 71:139 chromosome 13 in, 69:35 in rat, 71:139 metastases to lung, 68:1 periosteal, 68:1 parosteal, 68:1 secondary, 69:35 Ovarian cancer and tumors clinical correlates, 65:35; 71:76 cytogenetic changes, 65:35; 66:161; 71:76

double minutes in, 71:125 gene amplification, 66:155, 157 germ cell tumors, 66:161 heterochromatic variants, 65:35 Sertoli cell tumor with i(1q), 65:79 teratoma, chromosome changes, 66:161 thecoma, 71:180 therapy-related cytogenetic changes, 65:35 +12 in thecoma, 71:180

p53 gene; see Gene Pancreatic cancer and tumors chromosomes in, 66:147, 166 FISH analysis, 66:147 gastrinoma, 67:44 Paroxysmal Nocturnal Hemoglobinuria (PNH)

MRD, PCR and BMT, 65:88 Philadelphia (Ph) chromosome; see Ph-translocation

Ph-translocation and chromosome bcr/abl cosmid probe for, 70:103; 71:7

BCR-ABL fusion, 65:32, 107; 71:7 in ALL (L2), 65:115; 70:103, 153

in AML, 70:103; 71:7

in AML with granulocytic sarcoma, 69:38 in CML, 65:32, 100, 107; 66:103, 113; 67:50; 70:103, 153; 71:7

isodicentric, 66:113

Ph in thrombocytopenic purpura, 69:51 two Ph in cases of CML and ALL, 70:153 t(1:9:22) detected with FISH, 65:100

t(5;9;22) in CML, 65:107

t(11;9)(9;22)(q23;p22q34;q11), 68:131

variant translocation, 65:100, 107; 67:50; 68:131; 70:103, 71:7

Pineocytoma

chromosome changes, 71:185

Pituitary

adenoma, 68:140; 69:118

chromosomes in adenoma, 68:140; 69:118 numerical changes in adenoma, 69:118

Polycythemia Vera (PV)

chromosome changes in, 65:51; 68:60

fragile sites in, 65:51

t(8;21) prior to acute leukemia, 70:125

Polymerase Chain Reaction (PCR)

detection of PML/RARa fusion gene, 69:113 detection of tumor-specific deletions, 65:83

dual alu primers, 65:93

hematologic disorders, BMT and MRD, 65:88

in MRD, 65:88

painting probes and, 65:93

use of tumor biopsies with, 65:83

Polyps

of colon, 67:7

of intestine, 67:14

Primitive Neuroectodermal Tumor (PNET)

chromosome changes, 68:1

of brain, 66:161

45,XY,-22 in, 66:161

Probes

bcr/abl cosmid probes, 70:103

chromosomes from hybrid cells, 65:93

chromosome painting probes, 65:93

locus probes in tumors, 66:141

painting and t(1;9;22), 65:100

Prolymphocytic leukemia

chromosome changes, 66:135

lipopolysaccharide and B-cell growth factors in culture, 66:135

Prostate

adenomas, 66:165

benign prostatic hyperplasia (BPH), 68:126: 70:151

cancer, 66:93; 68:126; 69:7

chromosome changes in BPH, 68:126; 70:151

chromosome changes in cancer, 67:123; 69:7

chromosomes in adenomas, 66:165

cytogenetic survey of cancers, 66:93

FISH: paraffin vs. metaphase analysis, 69:7

FISH studies of ploidy, 66:142

genetic heterogeneity in cancer, 66:147

-Y in prostate but not stromal cells, 66:131

-Y,+7 and del(10)(q24) in cancer, 66:93

7q- in cancer, 67:123

Raf

benzpyrene induced osteosarcoma, 71:139

chromosome changes in osteosarcoma, 71:139

osteosarcoma in, 71:139

Refractory anemia (RA)

chromosome changes in, 65:51; 66:39; 67:71; 69:136;

70:6

clinical and cytogenetic correlations, 67:71; 70:6

del(5q) more common in women, 70:6

fragile sites in, 65:51

MRD, PCR and BMT, 65:88

+13 in progression to M1, 69:136

+14 in, 66:39

Refractory anemia with excess of blasts (RAEB)

chromosome changes in, 65:51; 66:39; 67:71

clinical and cytogenetic correlations, 67:71 eosinophilia with t(12;21)(q32;q22), 68:95

fragile sites in, 65:51

+14 in, 66:39

Refractory anemia with excess of blasts in transformation

(RAEB-t)

chromosome changes in, 65:51: 67:71

clinical and cytogenetic correlations, 67:71

fragile sites in, 65:51

t(6;9)(p22.3;q34) in, 69:74

t(12;14)(q13;q32) in, 65:76

Refractory anemia with ringed sideroblasts (RARS)

chromosome changes in, 65:51; 67:71

clinical and cytogenetic correlations, 67:71

fragile sites in, 65:51

ragile sites in, 65:5

Renal tumors

chromosome changes, 65:1; 66:159; 71:164

chromosome 11 and mesoblastic nephroma, 66:151

clear cell sarcoma, 66:152

cytogenetic classification, 66:159

del(X)(p11) in adenocarcinoma, 70:77

papillary cancer, 65:1; 71:164

rhabdoid, 66:161

Wilms in cancer family, 67:133

t(X;1) in, 65:1; 71:164

YAC spanning the t(X;1), 71:164

Xp11.2 breakpoint, 71:164

+7 in normal cells, 66:100

Rhabdomyosarcoma

alveolar, 66:43, 146

chromosome changes, 66:43; 68:99

FISH: detection of aneuploidy and deletions, 68:99

FISH in paraffin-embedded cells, 68:99

molecular genetic studies, 66:150

ocular, 66:43

translocations and other changes, 66:43; 68:99

t(2;13) in, 66:146

Ring chromosomes

chromosome 12 sequences in lipoma and LPS,

68:85

in dermatofibrosarcoma protuberans, 66:158

in giant cell tumor of bone, 66:108

in hematologic disorders, 68:60

in liposarcoma, 66:133; 68:85

origin of ring, 68:85

Salivary gland

adenomas, 65:27

correlation of chromosome changes with histology

and in vitro behavior, 65:27

cytogenetic subtypes, 65:27

multiple genetic events in adenoma, 66:146 pleomorphic, 65:27 Sarcoma chondrosarcoma, 68:1 fibrosarcoma (congenital), 65:152 FISH in, 68:1 leiomyosarcoma, 65:21 osteosarcoma, 68:1 Secondary acute leukemia chromosome changes, 70:1, 6 cytogenetics, age and gender, 70:6 immunophenotype, 70:1 multilineage involvement, 70:1 Sertoli cell tumor i(1q) in ovarian tumor, 65:79 of ovary, 65:79 -Y in tumor, 65:104; 66:163 Sister Chromatid Exchange (SCE) in myelodysplasia, 65:12 in Waldenström macroglobulinemia, 66:63 Small round cell tumors t(11;22)(q24;q12) in, 66:167 Soft tissue tumors leiomyosarcoma, 65:21 Squamous cell carcinoma chromosome changes, 66:23; 147, 166 chromosome 7, 66:166 chromosome 9 changes in glottis cancer, 66:23 chromosome 18 and response to TGFB, 66:151 chromosomes in head and neck cancer, 66:147 cytogenetic stability of cell line, 66:154 FISH studies, 66:166 monoclonal origin of head and neck cancer, 66:150 of glottis, 66:23 oral, 66:166 18q- and homozygosity for DCC locus, 66:146 Stomach cancer DNA amplification, 65:111 molecular studies, 65:111 oncogenes, 65:111 Synovial sarcoma breakpoint in X chromosome, 71:164 cytogenetic changes, 66:160

T-cell

ALL, 65:125
angiocentric lymphoma, 69:25
chromosome changes in T-cell tumors, 69:25
EBV and T-cell tumors, 69:25
immunoblastic lymphoma, 69:25
lymphoma, 65:71; 69:25
T-leukemia cell line, 66:54
t(6;11) in T-ALL, 65:125

Telomere(s)

absence of sequences on dmin, 70:132 reduction in giant cell tumor of bone, 71:132 reduction with aging, 71:132 sequences on deleted chromosomes, 70:132

Telomeric association (tas)
in bone tumors, 68:1
in cardiac myxoma, 66:155
in giant cell tumor of bone, 66:108; 68:1
in Wilms tumor, 69:141
Teratoma
ovarian, 66:161
Testicular tumors
cell line of germ cell tumor, 68:114
chromosome anomalies, 65:58: 67:123: 68:

cell line of germ cell tumor, 68:114
chromosome anomalies, 65:58; 67:123; 68:114, 70:12
chromosome 12 in germ cell tumors, 68:114; 70:85
cytogenetics and clinical stage, 70:12
cytogenetics of nonseminomatous tumors, 70:12
ectopic NOR in, 65:58
FISH studies, 68:114; 70:85
germ cell tumors, 68:114; 70:12, 85
i(12p)-negative germ-cell tumors, 70:85
Sertoli tumor, 65:104
-Y in Sertoli tumor, 65:104
7q- in, 67:123
12p and i(12p) in germ cell tumors, 66:167; 70:12, 85
12p sequences: overrepresentation, 70:85
Tetrasomy

chromosome 13 in murine breast tumor, 69:100 tetrasomy 8 in ANLL, 69:126; 71:50 tetrasomy 8 in MDS, 65:175 tetrasomy 8 in M5a, 71:50 Thecoma

ovarian, 71:180 +12 in ovarian thecoma, 71:180 Thrombocytopenic purpura

amegakaryocytic, 69:51

Ph+, 69:51 Thyroid tumors and conditions adenomas, follicular, 67:1

carcinoma, papillary, 67:117
cell line, 67:117
chromosomes in nodular hyperplasia, 69:31
cytogenetics changes in cancer, 67:117
cytogenetics of adenoma, 67:1
nodular hyperplasia, 69:31

Translocations
constitutional in neuroblastoma, 69:166
in hematologic disorders, 68:60
in leiomyosarcoma, 65:21
jumping translocations of 1q, 71:22
translocations in malignant diseases, 66:141
t(X;1)(p11:q21) in papillary renal cell tumor, 71:164
t(X;1)(p11.2;q21) in renal cancer, 65:1

t(X;11)(q13;q23) in AML, 68:66 t(X;11)(q24-25;q23) in AML, 68:66 t(X;14)(p11.4;q11) in immunoblastic lymphoma, 69:25 t(Y;1)(q12;q21) in MDS, 68:66; 70:155 t(Y;1)(q12;q21) in M2 after MDS, 70:136 t(1;1) in myeloma, 70:117

t(1;2)(p22;q23) in germ cell tumor, 68:114 t(1;2)(q34;q11) in breast cancer, 69:91 t(1;3)(p31;q11) in LPS, 68:85

t(1;3)(p36;q21) in AML/MDS, 68:65 t(1;3)(q42;q21) in meningioma, 66:118 t(1;4)(p13;q31) in leiomyoma, 67:59

t(1;4)(p31;p16) in nasopharyngeal cancer, 66:12

t(1;4)(q23;q31) in large granular lymphocyte leukemia, 69:25

t(1;5)(p13;q31) in gastric cancer, 68:42

t(1;5)(p22;q13) in neuroblastoma, 65:167

t(1;5)(p36;p13) in Merkel cell carcinoma, ;67:65

t(1;5)(q21;q32) in thyroid adenoma, 67:1

t(1;5)(q21;q35) in alveolar rhabdomyosarcoma, 66:43

t(1;6)(p22;q23) in germ cell tumor, 68:114

t(1;6)(q21;q12) in nasopharyngeal cancer, 66:12

t(1;7) in MDS, 70:120

t(1;7)(p11;p11) in AML/MDS, 67:71; 68:65

t(1;7)(p36;p11) in crisis of CML, 65:107

t(1;8)(p10;q10) in breast cancer, 69:91

t(1;8)(p11;p11) in thyroid cancer, 67:117

t(1;9)(p11;p11) in PV, 68:65

t(1;9)(p11;p12) in thyroid cancer, 67:117

t(1;9)(q43;p11) in thyroid cancer, 67:117

t(1;9;22)(q22;q34;q11) variant Ph in CML, 67:50

t(1;11)(p10;q10) in breast cancer, 69:91

t(1;11)(p32;q23) in ALL, 68:65

t(1;11)(q21;q23) in AML-M4,M5, 68:65

t(1;14)(p13;q31) in breast cancer, 69:91

t(1;14)(p32-34;q11) in T-ALL, 68:65

t(1;15)(p32;q21) in chondrosarcoma, 69:79

t(1;15)(q21;q24) in gastric cancer, 68:42

t(1;16)(q44;p11.2) in pituitary adenoma, 68:140

t(1;17) in sAML, 70:1

t(1;17)(p36;q21) in AML, 68:65

t(1;19)(p11;p11) in sAML, 70:1

t(1;19)(q21;q13) in alveolar rhabdomyosarcoma, 66:43

t(1;19)(q23;p13) in ALL, 68:65

t(1;22)(p13;q13) in AML-M7, 67:81; 68:65

t(2;3)(p11;q27) in lymphoma cell line from liver transplant patient, 71:155

t(2;3)(q13;p25) in thyroid adenoma, 67:1

t(2;3)(q35;q11) in meningioma, 66:118

t(2;4)(p23;q25) in M2, 70:140

t(2;4)(q32;q35) in ependymoma, 69:151

t(2;5)(p23;q35) in NHL, 68:65

t(2;6)(q32.2;q25.3) constitutional in neuroblastoma, 69:166

t(2;8)(p12;q24) in BL, 68:65

t(2;8)(q10;q10) in breast cancer, 69:91

t(2;8)(q21;q24) in carcinoids, 66:33

t(2;9)(p12;p23) in pre-B ALL, 69:163

t(2;10)(p25;p12) in ependymoma, 69:151

t(2;10)(q21.2;q22.1) in leiomyoma, 69:132

t(2;11)(p21;q23) in MDS, 68:65

t(2;11)(p23;q22) constitutional in neuroblastoma, 69:166

t(2;11)(q11.2;p11.2) in germ cell tumor, 68:114

t(2;11)(q21;q23) in alveolar rhabdomyosarcoma, 66:43

t(2;13)(p14;q33) in chondromyxoid fibroma, 69:79

t(2;13)(q32;p12) in chondrosarcoma, 69:79

t(2;14)(p13;p11) in gastric cancer, 68:42

t(2;14)(p13;q32) in B-CLL, 68:65

t(2;15)(q11;q11) in chondroblastoma, 69:79

t(2;16)(p23;p13) in meningioma, 66:118

t(2;17)(q13;q25) in nasopharyngeal cancer, 66:12

t(3;3)(q21;q26) in AML, 68:65

t(3;3)(q22;q26) in M4 in XYY man, 69:156

t(3;5)(q21;q31) in AML/MDS, 68:65

t(3;5)(q25;q34-35) in AML, 68:65

t(3;6)(p14;p11) in hematologic states, 71:15

t(3;7)(p21;q11) in esophageal cancer, 70:127

t(3;8)(p22;q11) in nasopharyngeal cancer, 66:12

t(3;8)(q27;q12) in well-differentiated LPS, 68:85

t(3;9)(q27;q22) in chondrosarcoma, 69:79

t(3;9;22)(p21;q34;q11) variant Ph in CML, 67:50

t(3;11)(q26;q13) in M4, 69:158

t(3;12)(p21;q24) in chondrosarcoma, 69:79

t(3;14)(p21;p11) in colonic polyps, 67:17

t(3;15)(q13.1;q26) in juvenile CML, 71:67

t(3;21)(p12;p12) in angiocentric lymphoma, 69:25

t(3;21)(p14;q22) in AML, 68:65

t(3;21)(q26;q22) in CML (Ph+), 68:122

t(3;21)(q26;q22) in MDS, 68:65

t(4;9;22)(q21;q34;q11) variant Ph in CML, 67:50

t(4;10)(q21;q22) in leiomyoma, 69:132

t(4;11)(q21;p14-15) in T-ALL, 69:122

t(4;11)(q21;q23) in ALL, 68:65

t(4;11)(q?27;q23) in esophageal cancer, 70:127

t(4;11;13)(q21;q23;q12-14) in ALL, 69:153

t(4;12)(q21;p13) in breast cancer, 65:64

t(4;13)(p14;q32) in clear cell sarcoma of kidney, 66:152

t(4;21)(p16;q22) in nasopharyngeal cancer, 66:12

t(5;6)(p13;p23) in biphenotypic leukemia, 69:129

t(5;7)(q15;q11.2) in thyroid adenoma, 67:1

t(5;8)(q10;q10) in breast cancer, 69:91

t(5;8)(q34-35;q1)in nasopharyngeal cancer, 66:12

t(5;9;22)(q13;q34;q11) in CML, 65:107

t(5;10)(q12;q26) in M2, 71:119

t(5;12)(q23;p13) in secondary osteosarcoma, 69:35

t(5;12)(q31;p12) in CML and CMMoL, 65:7

t(5;13)(p11;q11) in dermatofibrosarcoma protuberans, 67:149

t(5;14)(q31;q32) in ALL, 68:65

t(5;16)(q33;q22) in AML, 68:65

t(5;17)(q11;q11) in sAML, 70:1

t(5;19)(q11;p13) in immunoblastic lymphoma, 69:25

t(5;19)(q13;q13) in thyroid adenoma, 67:1

t(6;6)(q21;p21) in carcinoids, 66:33

t(6;7)(p23;p14) in M4, 71:119

t(6;7)(p25;q11.23) in an adrenocortical tumor, 68:78

t(6;7)(q11;q11) in gastric cancer, 68:42

t(6;8)(q12;q13.1) in uveal melanoma, 66:47

t(6;8)(q21;q13) in breast cancer, 69:91

t(6;9)(p12;p23) in uveal melanoma, 66:47

t(6;9)(p22.3;q34) in RAEB-t, 69:74

t(6;9)(p23;q34) in AML, 68:65

t(6;9;22)(p21;q34;q11) variant Ph in CML, 67:50

t(6;10)(p21;q22) in leiomyoma, 69:132

t(6;10)(q21.1;q22) in leiomyoma, 69:132

t(6;11)(p21.3;q13) in M2, 65:53

t(6;11)(q15;q21) in breast cancer, 69:91

t(6;11)(q26-27;q23) in ALL and ANLL, 65:125

t(6;11)(q27;q23) in AML, 68:65

t(6;12)(q11;p11) in nasopharyngeal cancer, 66:12 t(6;13)(p21;q11) in nasopharyngeal cancer, 66:12 t(6;13)(p23;q14) in childhood MDS, 70:17 t(7;7)(p13;q21) in Wilms tumor, 69:57 t(7;8)(p22;q21) in gastric cancer, 68:42 t(7;11)(p15;p15) in AML, 68:65 t(7;11)(p15;p15) in AML with low LAP, 68:143 t(7;11)(p?15;p?13) in esophageal cancer, 70:127 t(7;11)(q11;q24) in M7 in child, 66:75 t(7;11)(q35;p13) in T-ALL, 68:65 t(7;14)(p15;q32) in AML, 68:65 t(7;14)(q35-36;q11) in ALL, 68:65 t(7;22)(q36;q11) variant Ph in CML, 67:50 t(8;9)(p11;q34) in MPD, 68:65 t(8;9)(p21;q12) in germ cell tumor, 68:114 t(8;9)(q10;q10) in breast cancer, 69:91 t(8;9)(q22;q34) in MPD, 68:65 t(8;11)(q10;q10) in breast cancer, 69:91 t(8;11)(q22.1;q21) constitutional in neuroblastoma, 69:166 t(8;11)(q24;q21) in B-lymphoma cell line, 70:62 t(8;11)(q24;q22)t(8;14)(p21-22;q11) in T-lymphoma, t(8;12)(p21-22;q13) in ALL, 68:65 t(8;12)(p23;q21) in myeloid metaplasia, 71:183 t(8;13)(p11.2;q12) in T-lymphoma, 65:71 t(8;13)(q10;q10) in breast cancer, 69:91 t(8;14)(q11;q32) in ALL, 67:55; 68:65 t(8;14)(q11;q32) in ALL in Down syndrome, 70:148 t(8;14)(q24;q11) in T-ALL, 68:65 t(8;14)(q24;q32) in ALL-L3/BL, 68:65 t(8;14)(q24;q32) in L3, 71:178 t(8;16)(p11;p13) in AML, 68:65 t(8;17)(q22;p13) in nasopharyngeal cancer, 66:12 t(8:21)(q22;q22) in M2, 65:53; 71:119 t(8;21)(q22;q22) in AML-M2, 68:65 t(8;21)(q22;q22) in PV prior to acute leukemia, 70:125 t(8;22)(p13;q13.3) in leiomyoma, 67:59 t(8;22)(q24;q11) in ALL-L3/BL, 68:65 t(8;22)(q24;q11) in CLL, 65:157 t(9;1;9)(p12;p11 p43;p11) in thyroid cancer, 67:117 t(9;11)(p21-22;q23) in AML, 68:65 t(9;11)(p22;q23) in M4, 71:119 t(9;11;14)(p22;q23;q24) in M5a, 71:176 t(9;12)(p11;p12) in ALL, 68:65 t(9;12)(q12;q24) in secondary osteosarcoma, 69:35 t(9;13)(p13;q14) in gastric cancer, 68:42 t(9;14)(q11;p11) in gastric cancer, 68:42 t(9;15)(q10;q10) in lung cancer, 69:1 t(9;22)(p22;p11.2) in chondrosarcoma, 69:79 t(9;22)(q34;q11) in CML, 66:103 t(9;22)(q34;q11) in MPD/CML/ALL/AML, 68:65 t(9;22;10)(q34;q11;q11) variant Ph in CML, 67:50 t(9;22;12)(q34;q11;q11) variant Ph in CML, 67:50 t(10;11)(p12-14;q13-21) in AML, 68:66 t(10;11;12)(q22;p13;q14) in leiomyoma, 69:132 t(10;12)(p14-15;q13) in benign epithelial tumor of

breast, 69:68

t(10;12)(q22;q13) in leiomyoma, 69:132

t(10;12)(q25;q14) in leiomyoma, 69:132 t(10;14)(q24;q11) in T-ALL, 68:66 t(10;15)(q22;q26) in colonic polyps, 67:17 t(10;17)(p13;q12-21) in AML, 68:66 t(11;9)(9;22)(q23;p22q34;q11) in CML, 68:131 t(11;11)(p15;q13) in chondrosarcoma, 69:79 t(11;11)(p15;q23) in M5, 70:1 t(11;11)(q23;q25) in AML, 68:66 t(11;12)(q11;p11) in chondrosarcoma, 69:79 t(11;12)(q23;q21) in leiomyoma, 69:132 t(11;13)(p13;q12) in gastric cancer, 68:42 t(11;14)(p13;q11) in T-ALL, 68:66 t(11;14)(q13;q32) in NHL/CLD, 68:66 t(11;15)(p14;q22) in osteochondroma, 69:79 t(11;16)(q13;q22) in M4, 71:119 t(11;17)(p10;q10) in LPS, 68:85 t(11;17)(q23;q21) in AML, 68:66 t(11;17)(q23;q21) in M5, 71:173 t(11;17)(q23;q25) in AML, 68:66 t(11;19)(q23;p13) in AML/ALL, 68:66 t(11;20)(p12;p13) in breast cancer, 69:91 t(11;20)(p15;q11) in AML, 68:66 t(11;22)(p13;q11.2) in desmoplastic small round-cell tumors, 69:17 t(11;22)(p15;q11) variant Ph in CML, 67:50 t(11;22)(q24;q12) in Ewing sarcoma, 68:1 t(11;22)(q24;q12) in mesenchymal chondrosarcoma, 71:144 t(11;22)(q24;q12) in small round cell tumors, 66:167; 68:1 t(12;13) in secondary MDS, 70:117 t(12;13)(q24;q13-14) in infantile fibrosarcoma, 71:94 t(12;13)(p12;q12) in chondrosarcoma, 69:79 t(12;13)(q14-15;q34) in endometrial polyp, 68:32 t(12:13:15)(q13:q13:p11) in M2, 71:119 t(12;14)(p13;q24) in prostate cancer, 66:97 t(12;14)(q13;q32) in MDS, 65:76 t(12;14)(q13-14;q24) in benign epithelial tumor of breast, 69:68 t(12;14)(q24;q32) in AML, 68:66 t(12;15)(q13;q11) in enchondroma, 69:79 t(12;16)(q13;q24) in fibrolipoma, 67:145 t(12;17)(p12-13;q12) in ALL, 68:66 t(12;19)(q13;q13.3) in hemangiopericytoma, 71:151 t(12;21)(q23;q22) in MDS with eosinophilia, 68:95 t(12;22)(p13;q13) in M7, 65:81 t(12;22)(q11;q11) in germ cell tumor, 68:114 t(12;22)(q13;q12) in clear cell sarcoma of tendons, 66:165 t(13;15)(q10;q10) in PV, 65:54 t(13;19)(q14;q13) in gastric cancer, 68:42 t(13;22)(q34;q11) variant Ph in CML, 67:50 t(14;15)(p11;p11) in sAML, 70:1 t(14;17)(q32;q23) in CLD, 68:66 t(14:18)(q32;q21) in B-lymphoma cell line, 70:62 t(14;18)(q32;q21) in lymphoma, 68:7 t(14;18)(q32;q21) in L3 ALL, 65:177 t(14;18)(q32;q21) in NHL, 68:66

t(14;19)(q32;q13) in NHL, 68:66

t(14;22)(q32;q11) in ALL/CLD, 68:66

t(15;17)(q22;q11-12) in AML-M3, 68:66

t(15;17)(q24;q21) in M4, 70:79

t(15;17;18)(q21;q12;q12) in APL, 69:113

t(15;18)(q15;p11.2) in germ cell tumor, 68:114

t(15;20)(p11;p11) in osteoblastoma, 69:65

t(15;20)(q10;q10) in colonic polyps, 67:7

t(16;16)(p13;q22) in AML-M4EO/MDS, 68:66

t(16;21)(p11;q22) in AML, 68:66

t(16;21)(p11;q22) in M1, 70:144

t(16;21)(p11.1;q22) in M5b, 70:99

t(16;22)(q24;q11) variant Ph in CML, 67:50

t(17;19)(p11.2;q13.3) in thyroid adenoma, 67:1

t(17;20)(p11-12;q11) in osteoblastoma, 69:65

t(17;22)(q25;q11) variant Ph in CML, 67:50

t(18;22)(p11.2;q13.1) in thyroid adenoma, 67:1

Trisomy

FISH studies in various disorders, 66:73

in AML, 65:53; 69:139

in hematologic disorders, 68:60

in MDS, 65:53

meiotic origin of trisomic tumors, 70:112

trisomic neoplasms, 70:112

+4 and dmin in ANLL, 69:41

+4 in ALL, 65:115

+4 in hematologic disorders, 69:139; 70:152; 71:71

+4 in Kuwaiti case, 68:147

+4 in M1 (Brazilian case, Chinese case), 68:82; 69:139

+4 in M2, 71:71

+4 in M4, 65:115; 68:147; 70:152

+7 in normal lung and kidney cells, 66:100

+8 in AML and cell-lineage, 70:1

+8 in breast cancer, 65:64

+8 in MDS, 70:120

+8 in myeloid metaplasia, 71:183

+8 in uveal melanoma, 66:47

+11,+17,+20 in fibrosarcoma (congenital), 65:152

+12 in L3, 71:178

+12 in ovarian thecoma, 71:180

+13 in MDS progressing to M1, 69:136

+21 mosaicism and ALL, 66:70

Tumor(s)

biphasic tumors, 66:147

chromosome changes, 68:60

chromosome number in tumors (metaphase and interphase), 66:156

field inversion gel electrophoresis of DNA, 65:68

FISH studies of individual cells, 68:104

homozygous deletions in, 65:83

PCR and biopsies, 65:83

recovery of high-molecular-weight DNA, 65:68 unique sequences and structural anomalies in tumors, 66:144

uterine, 67:59

Uterine tumors

leiomyoma, 67:59; 69:132; 71:1

chromosome 7 in leiomyoma, 67:59; 71:1

Viruses

Epstein-Barr in Burkitt lymphoma, 67:90

integration near breakpoint in t(11;19), 67:90

von Hippel-Lindau disease

molecular cytogenetics, 66:163 Waldenström macroglobulinemia

SCE in. 66:63

SCE in bone marrow, 66:63

Wilms tumor

in Li-Fraumeni syndrome, 67:133

telomeric associations, 69:141

telomeric fusions in, 69:141

t(7;7)(p13;q21), 69:57

Wiskott-Aldrich syndrome

lack of chromosome instability, 69:22

X-chromosome

der(X) in ependymoma, 69:146

involvement in renal cancer, 65:1

-X in breast cancer, 65:64

-X in leiomyoma, 69:134

X-ray chromatid damage

DNA repair, 70:25

in Alzheimer disease, 70:25

in Down syndrome, 70:25

Y-chromosome

t(Y;1)(q12;q21) in MDS, 70:155

t(Y;1)(q12;q21) in M2 after MDS, 70:136

XYY and M4, 69:156

-Y in adrenocortical tumors, 68:78

-Y in alveolar rhabdomyosarcoma, 66:43

-Y in AML, 65:53

-Y in MDS, 67:71

-Y in M2 with t(8;21), 70:6

-Y in prostate BPH, 68:126

-Y in prostate cancer, 66:93

-Y in prostate cells but not in stroma, 66:131

-Y in pituitary adenoma, 69:118

-Y in Sertoli tumor, 65:104

Yeast Artificial Chromosome (YAC)

in renal cell tumor, 77:164

spanning t(X;1) in renal tumor, 77:164

